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Gas Supplies of Interstate Natural Gas Pipeline Companies 1984

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Gas Supplies of Interstate Natural Gas Pipeline Companies 1984

Energy Information Administration
Office of Oil and Gas
U.S. Department of Energy
Washington, D C 20585

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Prepared by:
Rosalee Price

Offshore Drilling Platform
in the Gulf of Mexico

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Introduction

Gas Supplies of Interstate Natural Gas Pipeline Companies 1984 was prepared by the Reserves and Natural Gas Division, Office of Oil and Gas, Energy Information Administration (EIA). The publication provides information on the total reserves, production, and deliverability capabilities of the 89 interstate pipeline companies[1] required to file the Federal Energy Regulatory Commission (FERC) Form 15, "Interstate Pipeline's Annual Report of Gas Supply." This publication is the 21st in a series of annual reports on the total gas supplies of interstate pipeline companies since the inception of individual company reports to the Federal Power Commission (FPC) in 1964 for report year 1963.

The purpose of this publication is to provide information on interstate pipeline companies' supply of natural gas during calendar year 1984, for use by the FERC for regulatory purposes. It also provides information to other government agencies, the natural gas industry, as well as policy makers, analysts, and consumers interested in current levels of interstate supplies of natural gas and trends over recent years.

The gas supplies of interstate pipeline companies consist of the certificated, dedicated, recoverable, salable natural gas available from domestic in-the-ground reserves; gas purchased under contracts with other interstate pipeline companies; domestically produced coal gas, liquefied natural gas (LNG), and synthetic natural gas (SNG); and imported natural gas and LNG. The domestic in-the-ground reserves consist of company-owned reserves including natural gas in underground storage, reserves dedicated to or warranted under contracts with independent producers, and supplemental or short-term supplies purchased from independent producers and intrastate pipeline companies. To avoid duplicate reporting of domestic in-the-ground reserves, the volumes of gas under contract agreement between jurisdictional pipelines have been excluded in summarizing State and national reserves. Volumes contracted under agreements with foreign suppliers include pipeline imports from Canada and Mexico and LNG from Algeria.

On October 1, 1977, pursuant to provisions of the Department of Energy Organization Act, Public Law 95-91, 91 stat. 565 (August 4, 1977), and Executive Order No. 12009, 42 Fed. Reg. 46267 (September 15, 1977), the FPC ceased to exist, and its functions and regulatory responsibilities were transferred to the FERC, an independent commission within DOE. The EIA within DOE is responsible for collecting, compiling, and disseminating the gas supply information reported by the jurisdictional interstate pipeline companies on Form 15. A summary of the methods used for collecting, analyzing, and preparing the data is provided in Appendix A.

All volumes of natural gas in this publication are reported on a dry basis at 14.73 pounds per square inch absolute and 60 degrees Fahrenheit. A glossary of terms used in this report has been provided to assist users in understanding the data presented in the publication. Additional natural gas information sources are listed in Appendix D.

[1]Appendix B lists all interstate pipeline companies that were required to file 1984 gas supply information with the Federal Energy Regulatory Commission.

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Overview

Domestic Natural Gas Reserves

Total dedicated domestic gas reserves, owned by or under contract to the interstate pipeline companies, decreased in 1984 by 4.6 trillion cubic feet (Tcf), or 5 percent, from 94.5 Tcf at the beginning of the year to 89.9 Tcf at the end of the year (Table 1). The reader should be aware that the decrease in reserves, reported by Form 15 respondents, does not necessarily indicate a decrease in the level of proved natural gas reserves for the United States as a whole. The EIA collects total proved domestic reserve information on Form EIA-23, "Annual Report of Domestic Oil and Gas Reserves," and publishes its findings annually in *U. S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, DOE/EIA-0216. The EIA-23 publication reported proved reserves of 197.5 Tcf at year-end 1984, down slightly from the 200.2 Tcf reported at the beginning of the year.

A 5-year tabulation shows that dedicated domestic gas reserves, reported on Form 15, decreased slightly from 97.3 Tcf at the beginning of 1980 to 89.9 Tcf at the end of 1984, a decrease of 7.4 Tcf, or 7.6 percent (Table 2). It should be noted, however, that reserves reported for 1981 and subsequent years include company-owned reserves in underground storage. Prior to report year 1981, underground storage reserves were not uniformly reported. The reported peak reserves of 198.1 Tcf occurred at year-end 1967 (Figure 1 and Table 3).

Annual Production

Total gas purchased and produced from the dedicated domestic gas reserves in 1984 was 10.4 Tcf, up 9.5 percent from the 9.5 Tcf reported in the preceding year. A peak production level of 14.2 Tcf occurred in 1971 and 1972 (Figure 1 and Table 3).

Reserves/Production (R/P) Ratio

The 1984 ratio of total dedicated domestic reserves to production was 8.6, significantly below the 10.0 ratic reported for 1983 (Figure 2). The R/P ratio declined steadily throughout the first 10 years of Form 15 reports. Since 1972 the decline has been less pronounced. There was a slight increase in 1982 and 1983 due to the decrease in production in both years. This year's decline is attritubed to the slight decrease in reserves reported at the beginning of the year.

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Net Revisions

Net revisions to dedicated domestic gas reserves during 1984 are calculated at 0.1 Tcf, as compared to -0.5 Tcf in 1983 (Tables 1 and 2).

Revisions are attributed to production adjustments, changes in dedicated interests, and revisions to in-the-ground domestic reserve estimates of previous years made during the current report year.

Revisions to purchases from interstate pipeline companies who are survey respondents, revisions to import contracts, or revisions to purchases of coal gas, LNG, or SNG are not included.

Reserve Additions

Total interstate reserve additions during 1984 are reported to be 4.8 Tcf, compared to additions of 5.8 Tcf in 1983 (Tables 1 and 2).

Reserve additions consist of new, proved, dedicated domestic reserves credited to new fields, new reservoirs, new gas purchase contracts, amendments to old gas purchase contracts, or purchase of in-place gas reserves that occurred during the report year and had not been previously reported. Reserve additions refer to domestic in-the-ground natural gas reserve additions and do not refer to interstate pipeline purchase agreements, contracts with foreign suppliers, or coal gas, LNG, or SNG purchase arrangements.

Of the 4.8 Tcf of reserve additions reported during the report year, 3.0 Tcf are attributed to new gas purchase contracts with independent producers (Table 5).

Gross Change in Reserves

The gross change in dedicated domestic reserves is calculated at 5.8 Tcf for 1983 (Table 1). This quantity is defined as the difference between year-end 1983 and year-end 1984 reserves, plus 1984 production.

Gross Change/Production (GC/P) Ratio

The ratio of gross change in reserves (revisions and additions) to production for 1984 was 0.56. The comparable ratio for 1983 was also 0.56 (Figure 3). A ratio less than 1 indicates a decrease in year-end reserves from the preceding year.

Imports

Total natural gas imported by interstate pipeline companies from two foreign sources, Canada and Mexico, was 0.8 Tcf, 7.0 percent of the total gas produced and purchased in 1984. Imports of LNG from Algeria totaled only .003 Tcf.

Volumes of Canadian and Mexican natural gas and Algerian LNG remaining under contract are 10.7 and 3.2 Tcf respectively (Figure 4 and Table 4).

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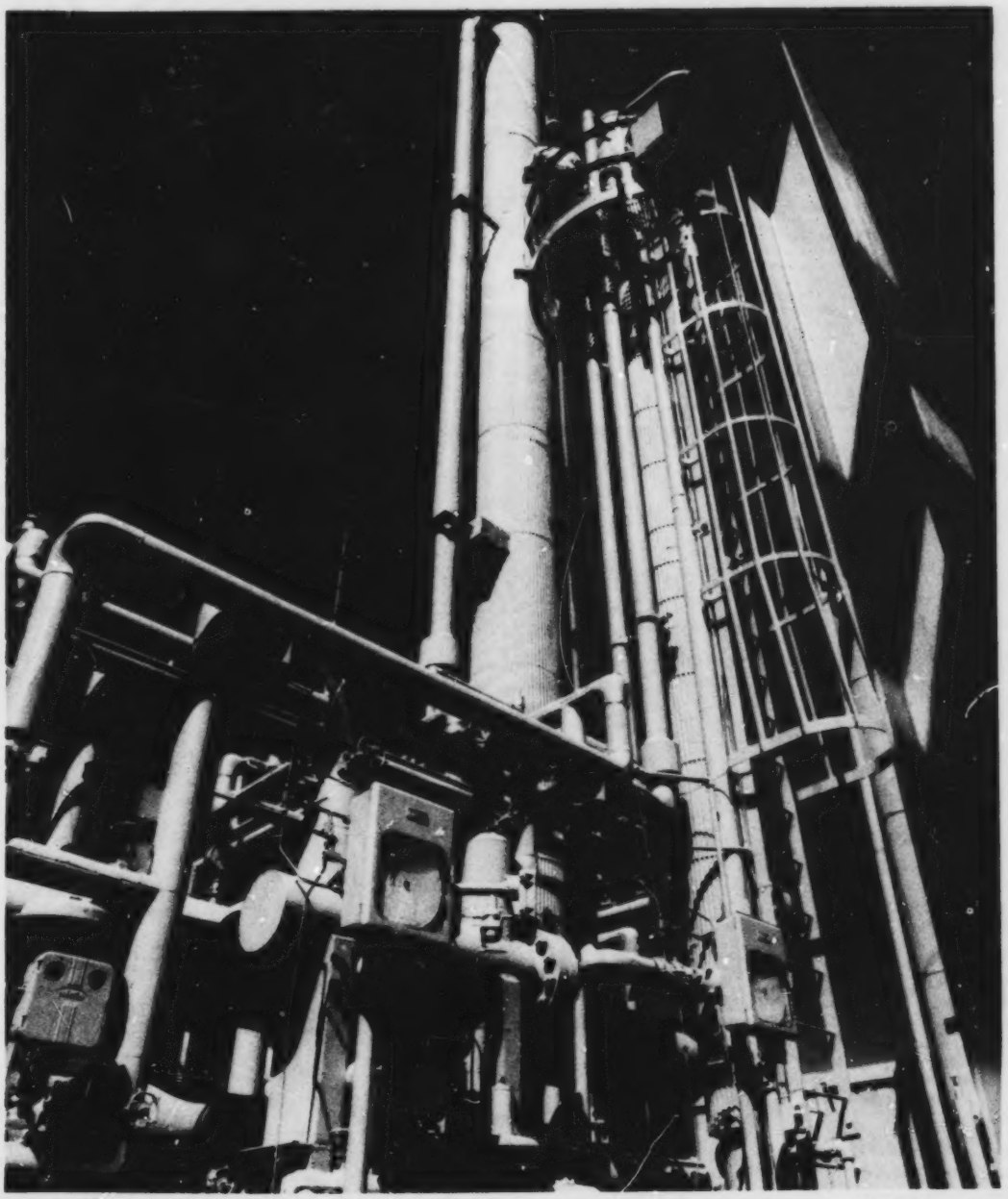
Projected Deliverability

Total deliveries are projected to decline from 12.8 Tcf in 1985 to 6.6 Tcf by 1989 (Table 4). This decline is driven by the projected decline in domestic reserve deliverability. Deliveries from foreign and other sources are expected to decline, but at a slower rate over the 5-year period.



Natural gas processing plant.

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Table 1. Summary of Domestic Natural Gas Reserves of The Interstate Natural Gas Pipeline Companies

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Item	Company-Owned and Long-Term Gas Purchase Contracts	Other Gas Supply[a]	Total Dedicated Domestic Gas Reserves
(a) Total dedicated gas reserves as of December 31, 1983	93,942,580	[b] 554,943	94,497,523
(b) Net revisions to reserve estimates during 1984[c]	NA	NA	1,029,720
(c) Reserves added during 1984	NA	NA	4,788,058
(d) Total net revisions and additions[c] (e) minus (a)	5,720,427	97,351	5,817,778
(e) Gas reserves as of December 31, 1984 and changes during 1984 (f) plus (g)	99,663,007	652,294	100,315,301
(f) Deduct gas purchased and produced during 1984	10,253,569	168,056	10,421,625
(g) Total dedicated gas reserves as of December 31, 1984	89,409,438	484,238	89,893,676

[a] Includes emergency purchases, short-term contracts and intrastate purchases. Purchases between interstate pipelines, and purchases from foreign suppliers are excluded.
[b] Represents contractual volumes.
[c] Includes underground storage reserves.
NA equals Not Available.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

Table 2. Annual Changes in Interstate Gas Reserves

(Billion Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Item	1980	1981	1982	1983	1984
Beginning of Year Reserves	97,299	97,102	98,339	98,711	94,498
New Reserve Additions	10,256	10,102	9,898	5,825	4,788
Net Revisions[a]	1,151	3,095	1,407	-541	1,030
Total Additions and Revisions[b]	11,407	13,197	11,304	5,284	5,818
Annual Production	11,604	11,959	10,933	9,497	10,422
Year-End Reserves	97,102	98,339	98,711	94,498	89,894
Upward (Downward) Revisions Percent of Additions	11.2	30.6	14.2	-9.3	21.5

[a] Calculated; includes underground storage reserves beginning in 1981.
[b] "Year-End Reserves" plus "Annual Production" less "Beginning of Year Reserves."
Note: Totals may not equal sum of components due to independent rounding.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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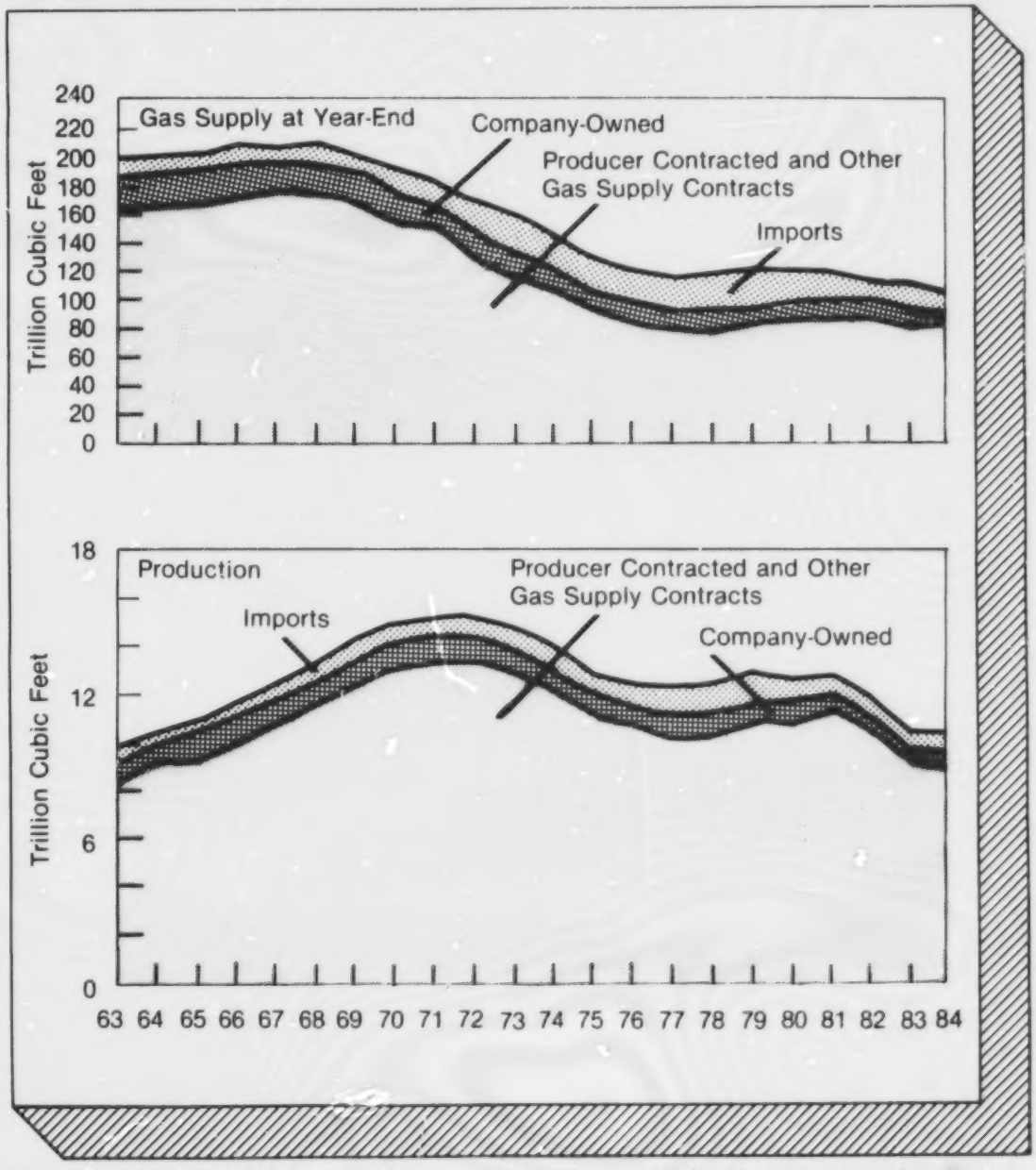
Figure 1. Total Gas Supplies of Interstate Pipeline Companies
(Trillion Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)



Source: Energy Information Administration, Form FERC-15, "Interstate Pipeline's Annual Report of Gas Supply."

Table 3. Total Interstate Gas Supply, Domestic Gas Reserves, Import Contracts, and Other Supply

(Trillion Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Date	Domestic Reserves				Import contracts		Other[b]	Total Gas Supply	Number of Companies
	Short-Term and Emergency Purchases[a]	Long-Term Independent Producer Contracts	Company Owned	Total	Pipeline	LNG			
Gas Supply at Year-End									
1963	--	165.1	23.4	188.5	9.7	--	--	198.2	65
1964	--	166.3	22.9	189.2	11.0	--	--	200.2	67
1965	--	169.1	23.0	192.1	10.8	--	--	202.9	66
1966	--	172.9	22.2	195.1	9.9	--	--	205.0	69
1967	--	175.9	22.2	198.1	10.6	--	--	208.7	67
1968	--	173.3	21.7	195.0	12.5	--	--	207.5	67
1969	--	169.0	18.6	187.6	11.9	--	--	199.5	68
1970	--	156.4	17.2	173.6	17.2	--	--	190.8	68
1971	0.07	144.8	16.5	161.4	16.6	--	--	178.0	62
1972	.32	131.2	15.4	146.9	15.7	5.7	--	168.3	67
1973	.21	120.9	13.2	134.3	14.8	8.7	--	157.8	67
1974	.06	108.6	11.8	120.5	13.5	9.1	--	143.1	65
1975	.01	95.6	11.2	106.8	12.6	9.4	--	128.8	65
1976	.03	87.5	10.8	98.3	11.5	9.4	--	119.2	62
1977	.01	82.6	10.3	92.9	10.7	12.6	--	116.2	61
1978	[c] (*)	83.7	10.3	94.0	10.1	12.4	--	116.5	61
1979	.02	84.7	12.6	97.3	10.4	12.0	--	119.6	63
1980	.27	84.5	12.3	97.1	11.3	8.3	--	116.7	63
1981	1.02	83.6	13.7	98.3	12.3	7.6	0.34	118.6	73
1982	.66	84.4	13.7	98.7	11.0	3.3	.61	113.6	71
1983	.55	83.3	10.6	94.5	9.5	3.2	.55	107.7	71
1984	.48	79.9	9.5	89.9	10.7	3.2	.85	104.6	74
Annual Production									
1963	--	8.5	.9	9.4	.4	--	--	9.8	65
1964	--	9.1	.9	10.0	.4	--	--	10.4	67
1965	--	9.4	1.0	10.4	.4	--	--	10.8	66
1966	--	10.1	1.0	11.1	.4	--	--	11.5	69
1967	--	10.8	1.0	11.8	.5	--	--	12.3	67
1968	--	11.6	1.0	12.6	.6	--	--	13.2	67
1969	--	12.4	1.0	13.4	.7	--	--	14.1	68
1970	--	13.1	1.0	14.1	.8	--	--	14.9	68
1971	.18	13.1	.9	14.2	.9	--	--	15.1	62
1972	.27	12.9	1.0	14.2	1.0	--	--	15.2	67
1973	.29	12.6	.8	13.7	1.0	--	--	14.7	67
1974	.23	12.0	.8	13.0	.9	--	--	13.9	65
1975	.11	11.2	.7	12.0	.9	--	--	12.9	65
1976	.08	10.7	.7	11.4	.9	--	--	12.3	62
1977	.16	10.0	.9	10.9	1.0	.1	--	12.1	61
1978	.10	10.3	.6	11.0	.8	.6	--	12.4	61
1979	.05	10.8	.7	11.6	1.0	.2	--	12.7	63
1980	.03	10.9	.7	11.6	.9	.1	--	12.6	63
1981	.40	10.9	.6	12.0	.8	[c] (*)	.02	12.8	73
1982	.13	10.2	.6	10.9	.9	[c] (*)	.02	11.8	71
1983	.10	9.0	.4	9.5	.8	.1	.01	10.4	71
1984	.17	9.9	.4	10.4	.8	[c] (*)	.01	11.2	74

[a] Includes intrastate pipeline purchases.
[b] Includes COG, LNG, SNG and other supply.
[c] Less than 0.005 trillion cubic feet.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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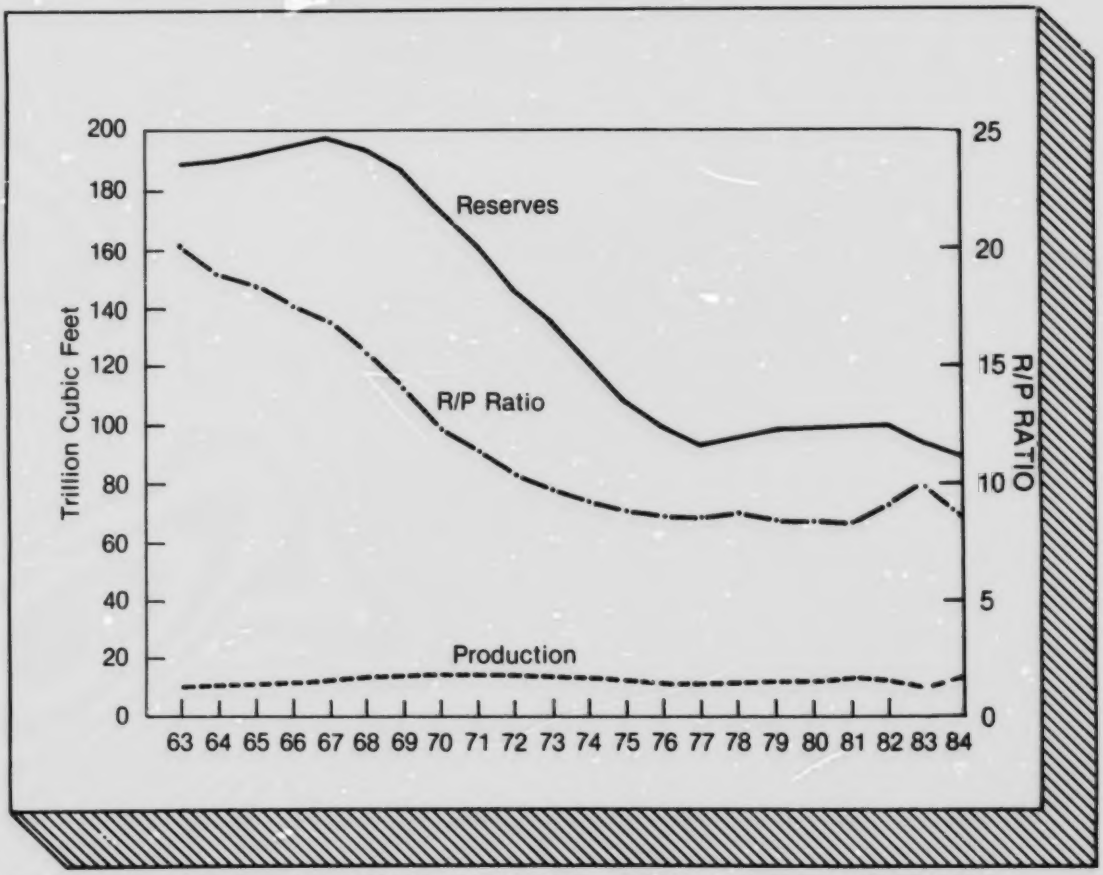
Figure 2. Natural Gas Reserves, Production and R/P Ratios
(Trillion Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)



Source: Energy Information Administration, Form FERC-15, "Interstate Pipeline's Annual Report of Gas Supply."

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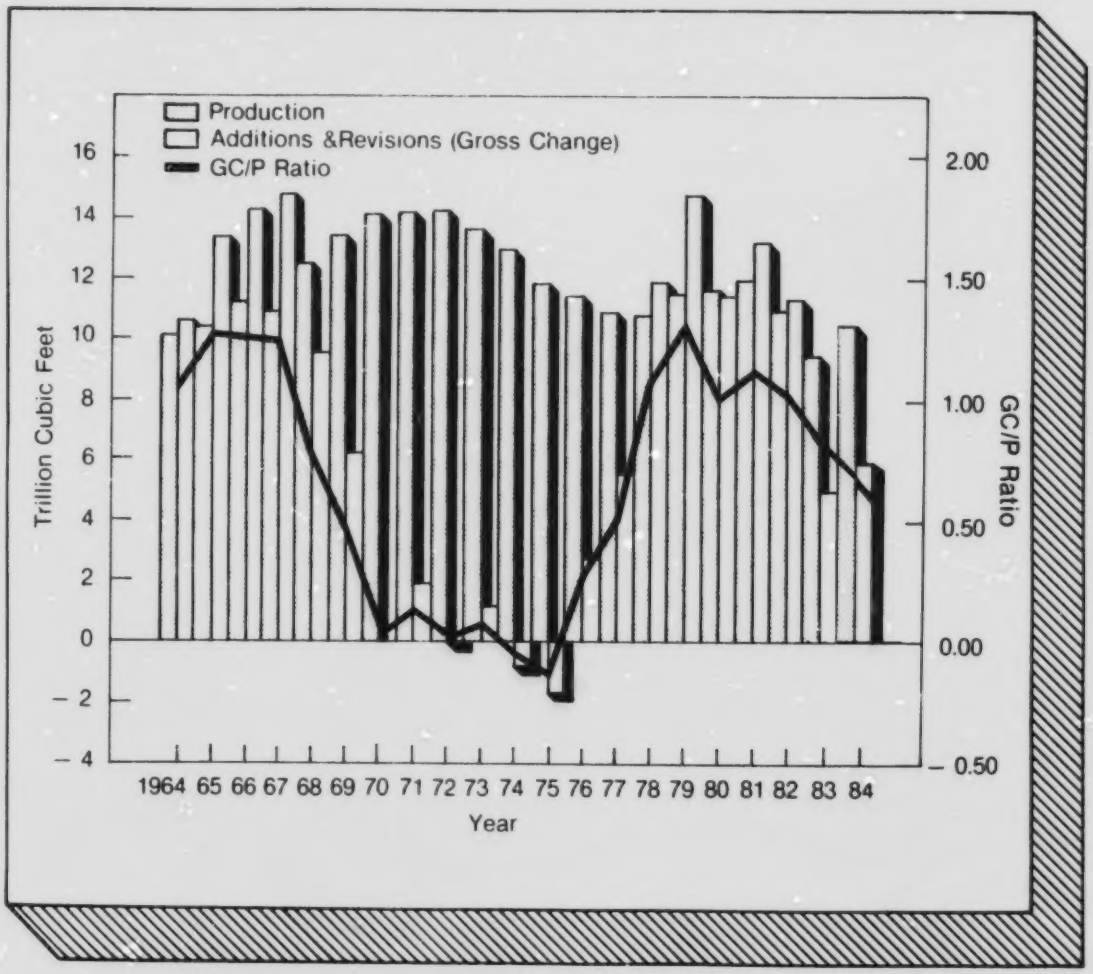
Figure 3. Natural Gas Production, Revisions and Additions (Gross Change), and Gross Change-Production Ratios
(Trillion Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)



Source: Energy Information Administration, Form FERC-15, "Interstate Pipeline's Annual Report of Gas Supply."

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Table 4. Gas Supply and Deliverability Summary: Volumes Dedicated to Interstate Pipeline Companies as of Year-End 1984

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

	Gas Supply 12-31-84	Produced and/or Purchased	Projected Deliverability				
			1985	1986	1987	1988	1989
Domestic Gas Supply							
Company-Owned and Long-Term	89,409,438	10,253,569	11,279,342	9,769,121	8,171,342	6,733,093	5,650,250
Short-Term and Emergency Purchases[a]	484,238	168,056	82,086	128,333	94,179	46,670	45,502
Total Domestic	89,893,676	10,421,625	11,361,428	9,897,454	8,265,521	6,779,763	5,695,752
Domestic as Percent of Total	85.9	92.9	88.5	88.8	88.5	86.7	85.7
Pipeline Imports							
Mexican Gas	940,323	51,502	109,500	109,500	109,500	109,800	109,500
Canadian Gas	9,733,544	735,627	1,332,386	1,101,673	932,935	890,268	802,399
Total Pipeline Imports	10,673,867	787,129	1,441,886	1,211,173	1,042,435	1,000,068	911,899
Pipeline Imports as Percent of Total	10.2	7.0	11.2	10.9	11.2	12.8	13.7
LNG Imports							
Algerian LNG	3,171,534	3,406	0	0	0	0	0
LNG Imports as Percent of Total	3.0	.0	.0	.0	.0	.0	.0
Other[b]	854,928	10,241	32,861	34,217	35,888	36,411	36,360
Other as Percent of Total	.8	.1	.3	.3	.4	.5	.5
Total All Sources	104,594,005	11,222,401	12,836,175	11,142,844	9,343,844	7,816,242	6,644,011

[a] Includes intrastate pipeline purchases.
[b] Includes coal gasification, liquefied natural gas, synthetic natural gas and other supply.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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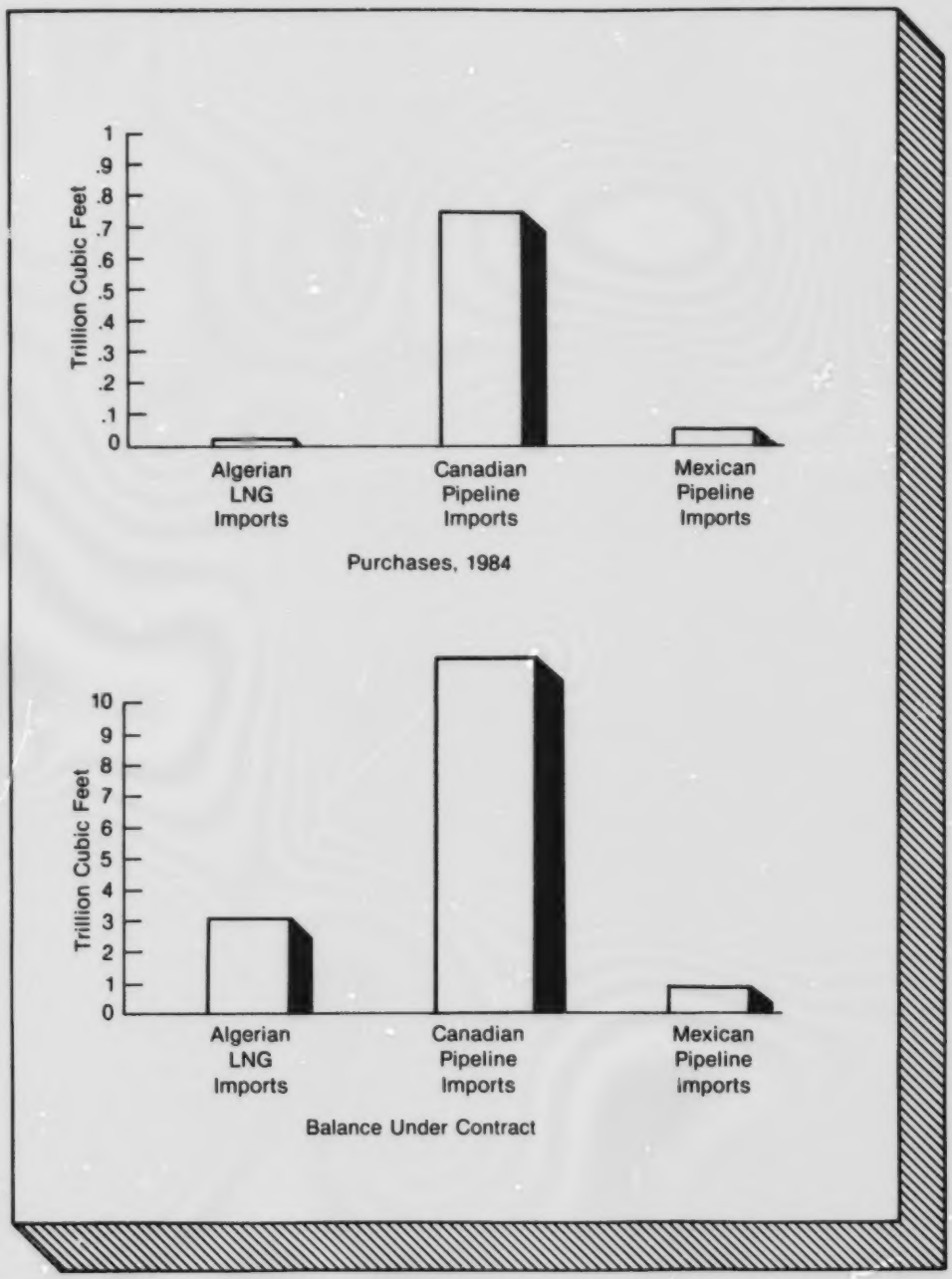
Figure 4. Imports
(Trillion Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)



Source: Energy Information Administration, Form FERC-15, "Interstate Pipeline's Annual Report of Gas Supply"

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Table 5. New Reserve Additions Reported for the First Time in 1984

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Company Name	Producer-Contracted Additions	Total Additions
ANR Pipeline Co	73,510	119,837
Arkla Inc	144,668	162,073
Carnegie Natural Gas Co	2,388	2,612
Colorado Interstate Gas Co	50	22,926
Columbia Gas Transmission Corp	251,848	260,494
Consolidated Gas Transmission Corp	86,891	89,088
East Tennessee Natural Gas Co	0	51
El Paso Natural Gas Co	10,392	70,929
Equitable Gas Co	1,950	1,950
Florida Gas Transmission Co	127,922	163,983
Inland Gas Co Inc	0	200
K N Energy Inc	79,041	79,041
Kentucky West Va Gas Co	0	1,611
Locust Ridge Gas Co	2,138	2,138
Lone Star Gas Co Div Enserch Corp	1,602	1,883
Mid Louisiana Gas Co	211	211
MIGC Inc	7,150	19,824
Mississippi River Transmission Corp	30,427	30,427
Montana-Dakota Utilities Co	0	34,990
Mountain Fuel Resources Inc	0	22,175
National Fuel Gas Supply Corp	22,375	10,278
Natural Gas Pipeline Co of America	478,526	565,252
Northern Natural Div InterNorth Inc	109,443	143,278
Northwest Central Pipeline Corp	0	35,762
Northwest Pipeline Corp	0	235,186
Panhandle Eastern Pipe Line Co	0	140,792
Sea Robin Pipeline Co	0	14,998
Southern Natural Gas Co	1,133	48,443
Tennessee Gas Pipeline Div Tenneco	155,475	277,872
Texas Eastern Transmission Corp	805,709	839,355
Texas Gas Transmission Corp	252,943	390,469
Transcontinental Gas Pipe Line Corp	306,228	681,898
Transwestern Pipeline Co	35,924	193,221
Trunkline Gas Co	0	35,886
United Gas Pipe Line Co	4,913	78,448
Valero Interstate Transmission Co	5,766	5,766
Valley Gas Transmission Inc	0	4,711
Total All Companies	2,998,623	4,788,058

Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Distribution of Domestic Natural Gas Reserves and Production

The volume of domestic natural gas reserves owned by or dedicated to the interstate pipeline companies at year-end 1984 totaled 89.9 trillion cubic feet (Tcf), including 88.5 Tcf of reserves located in 30 States and 1.4 Tcf of gas in underground storage but undesignated by State (Tables 6, 7, and 8). Production reported in 30 States totaled 10.4 Tcf.

Louisiana, New Mexico, and Texas collectively accounted for 60.0 percent of the domestic in-the-ground reserves and 75.4 percent of the production reported in 1984 (Figure 5). Although the Form 15 no longer requires respondents to report natural gas reserves by FERC gas area, the traditional subdivisions of Louisiana, New Mexico, and Texas have been retained for historical continuity. The reserves for these States are presented by State subdivision in Tables 6, 7, and 8, according to the county in which the reserves were reported to exist. Appendix C provides a ready reference which the reader can utilize to relate counties within these States to the State subdivisions appearing in Tables 6, 7, and 8.

In Tables 6 and 7, reserves are shown as "Nonassociated" and "Other," as reported. "Nonassociated" refers to natural gas in reservoirs that do not contain significant quantities of crude oil. Reserves not explicitly reported as "Nonassociated" on the Form 15 are classified as "Other."

The reader concerned about historical trends in reserves and production by State and by producing area within the States of Louisiana, New Mexico, and Texas will find this information in Table 8.

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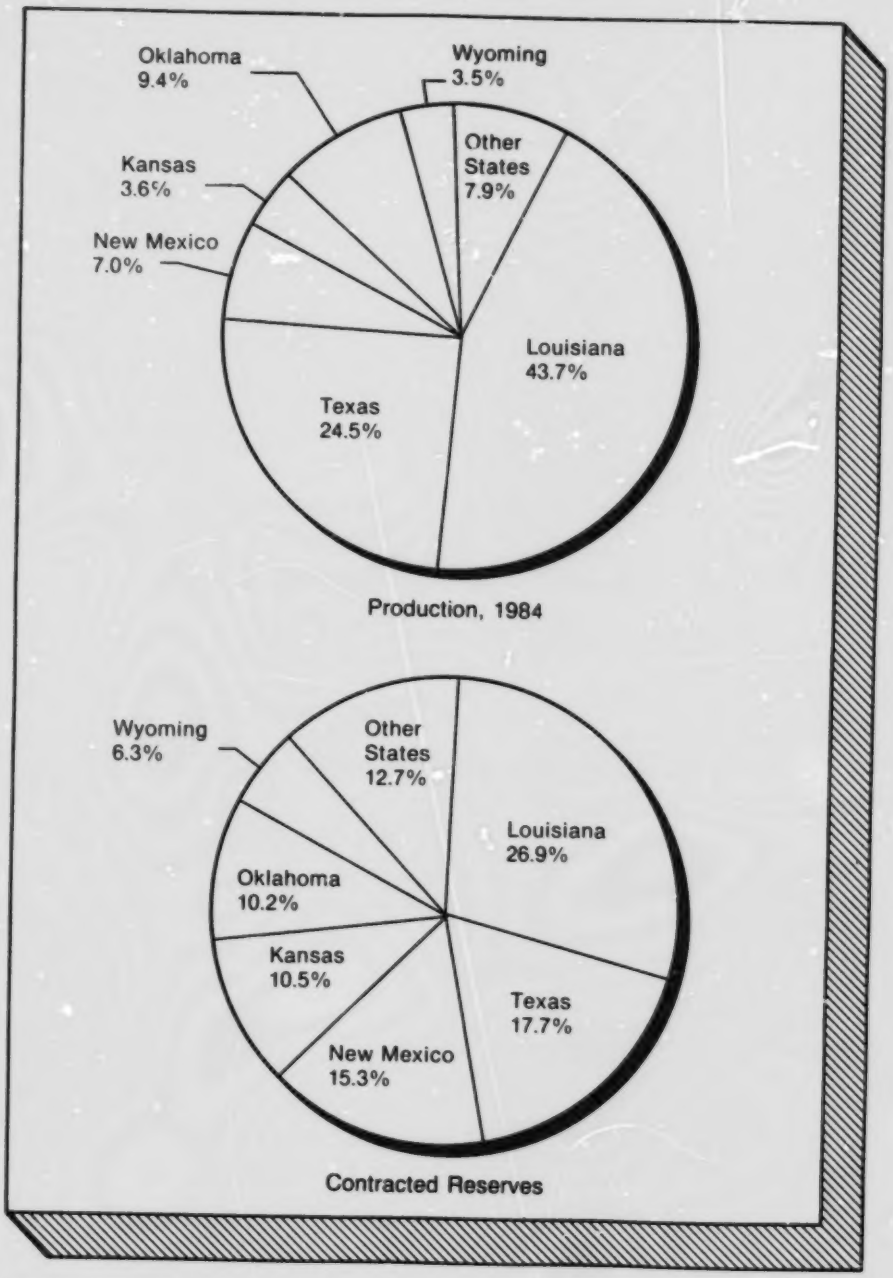
Figure 5. Distribution of Reserves and Production by State



Source: Energy Information Administration, Form FERC-15, "Interstate Pipeline's Annual Report of Gas Supply."

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Table 6. Summary of Dedicated Gas Production and Reserves by Type of Gas by State

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

State	1984 Year-End Gas Reserves	Production	Non-associated	Other
Alabama	145,678	33,653	140,319	5,359
Arkansas	1,388,472	83,534	1,376,694	11,778
California	328,108	0	0	328,108
Colorado	1,554,239	116,262	1,393,495	160,744
Florida	46,540	2,915	0	46,540
Illinois	4,548	217	4,456	92
Indiana	13	0	13	0
Kansas	9,523,422	379,346	9,458,051	65,371
Kentucky	438,036	47,238	436,798	1,238
Louisiana	24,230,485	4,562,678	19,728,984	4,501,501
Northern Louisiana	2,152,622	239,947	2,030,771	121,851
Southern Louisiana Onshore	4,542,069	777,575	4,037,948	504,121
Southern Louisiana Warranty[a]	794,166	219,876	0	794,166
Southern Louisiana Offshore	16,741,628	3,325,280	13,660,265	3,081,363
Maryland	145,479	60	145,479	0
Michigan	168,989	0	168,989	0
Minnesota	0	3,335	0	0
Mississippi	743,691	142,509	730,011	13,680
Montana	675,055	24,351	576,202	98,853
Nebraska	91,353	3,547	89,090	2,263
New Mexico	13,759,477	736,216	12,541,687	1,217,790
San Juan Basin	10,702,241	347,179	10,590,040	112,201
New Mexico Permian Basin	3,057,236	389,037	1,951,647	1,105,589
New York	193,062	14,368	191,719	1,343
North Dakota	231,981	18,267	9,515	222,466
Ohio	401,352	53,767	226,814	174,538
Oklahoma	9,233,423	986,368	8,510,954	722,469
Pennsylvania	964,914	67,713	964,914	0
South Dakota	11,637	817	7,884	3,753
Tennessee	5,415	4,037	4,295	1,120
Texas	15,968,545	2,555,879	13,118,137	2,850,408
Texas Railroad District No. 1 (North)	27,769	1,450	27,769	0
Texas Railroad District No. 1 (South)	99,745	25,266	96,384	3,361
Texas Railroad District No. 2	704,025	207,186	616,701	87,324
Texas Railroad District No. 3	327,633	67,043	293,612	34,021
Texas Railroad District No. 4	1,640,337	278,537	1,334,970	305,367
Texas Railroad District No. 5	7,256	2,714	5,554	1,702
Texas Railroad District No. 6	1,521,843	180,440	1,490,062	31,781
Texas Railroad District No. 7B	551	166	222	329
Texas Railroad District No. 7C	1,084,896	129,645	720,521	364,375
Texas Railroad District No. 8	2,971,901	298,081	1,592,819	1,379,082
Texas Railroad District No. 8A	59,228	11,541	3,825	55,403
Texas Railroad District No. 9	231,054	47,265	187,808	43,246
Texas Railroad District No. 10	3,304,859	388,885	3,019,132	285,727
Texas Offshore	3,987,448	917,660	3,728,758	258,690
Utah	870,143	52,753	856,722	13,421
Virginia	112,864	8,976	112,864	0
Washington	12,527	0	12,527	0
West Virginia	1,507,008	149,753	1,507,007	1
Wyoming	5,725,977	373,066	5,121,012	604,965
Undesignated[b]	1,411,243	0	1,411,243	0
Total All States	89,893,676	10,421,625	78,845,875	11,047,801

[a] Warranty reserves are reserves guaranteed by contract but not supported by dedication of specific approved sources of supply.
[b] Includes reserves in underground storage which were reported without a State designation.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 7. Dedicated Gas Production and Reserves by Type of Gas by State and Company

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

State	1984 Year-End Gas Reserves	Production	Non-associated	Other
Alabama				
Florida Gas Transmission Co*	16,472	3,316	14,906	1,566
Southern Natural Gas Co*	54,930	16,091	51,198	3,732
Tennessee Gas Pipeline Div Tenneco	26,817	7,040	26,817	0
United Gas Pipe Line Co*	47,459	7,206	47,398	61
State Total	145,678	33,653	140,319	5,359
Arkansas				
Arkansas Oklahoma Gas Corp	3,312	302	3,312	0
Arkla Inc*	1,211,511	51,967	1,200,416	11,095
Columbia Gas Transmission Corp*	80,534	16,850	80,534	0
International Paper Co	2,000	227	2,000	0
Louisiana-Nevada Transit Co	31,113	55	31,113	0
Mississippi River Transmission Corp	1,549	4,809	1,549	0
Natural Gas Pipeline Co of America*	33,129	4,947	32,496	633
Tennessee Gas Pipeline Div Tenneco	21,282	2,231	21,282	0
Texas Eastern Transmission Corp*	3,992	2,128	3,992	0
United Gas Pipe Line Co*	50	18	0	50
State Total	1,368,472	83,534	1,376,694	11,778
California				
Pacific Interstate Offshore Co	168,108	0	0	168,108
Pacfic Offshore Pipeline Co	160,000	0	0	160,000
State Total	328,108	0	0	328,108
Colorado				
Colorado Interstate Gas Co*	118,193	19,012	43,298	74,895
K N Energy Inc*	87,971	5,164	81,629	6,342
Mountain Fuel Resources Inc	132,763	16,711	132,763	0
Natural Gas Pipeline Co of America*	33,016	3,087	31,492	1,524
Northern Natural Div InterNorth Inc*	24,511	2,781	17,973	6,538
Northwest Central Pipeline Corp*	51,085	6,854	51,085	0
Northwest Pipeline Corp*	658,724	31,078	656,620	2,104
Panhandle Eastern Pipe Line Co*	444,045	31,479	375,901	68,144
Texas Gas Transmission Corp*	2,734	96	2,734	0
West Texas Gas Inc	1,197	0	0	1,197
State Total	1,554,239	116,262	1,393,495	160,744
Florida				
Florida Gas Transmission Co*	10,503	2,887	0	10,503
Tennessee Gas Pipeline Div Tenneco	36,037	28	0	36,037
State Total	46,540	2,915	0	46,540
Illinois				
Midwestern Gas Transmission Co	3,127	0	3,127	0
Mississippi River Transmission Corp	973	0	973	0
Natural Gas Pipeline Co of America*	0	36	0	0
Texas Eastern Transmission Corp*	8	0	8	0
Trunkline Gas Co*	440	181	348	92
State Total	4,548	217	4,456	92
Indiana				
Texas Eastern Transmission Corp*	13	0	13	0
State Total	13	0	13	0
Kansas				
ANR Pipeline Co*	9,280	1,861	5,813	3,467
Arkla Inc*	3,568	14	3,568	0
Colorado Interstate Gas Co*	742,205	29,117	742,205	0
El Paso Natural Gas Co*	153,531	8,481	153,531	0
K N Energy Inc*	743,427	42,998	742,122	1,305
Natural Gas Pipeline Co of America*	25,017	1,504	24,923	94
Northern Natural Div InterNorth Inc*	2,734,057	120,654	2,688,350	45,707
Northwest Central Pipeline Corp*	3,488,387	117,940	3,488,387	0
Panhandle Eastern Pipe Line Co*	1,606,652	55,455	1,592,007	14,645
Tennessee Gas Pipeline Div Tenneco	1,210	0	1,210	0

Note: Footnotes appear at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 7. Dedicated Gas Production and Reserves by Type of Gas by State and Company (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

State	1984 Year-End Gas Reserves	Production	Non-associated	Other
Kansas				
Union Gas System Inc	8,006	754	8,006	0
Western Gas Interstate Co	153	14	0	153
Zenith Natural Gas Co	7,929	554	7,929	0
State Total	9,523,422	379,346	9,458,051	65,371
Kentucky				
Columbia Gas Transmission Corp[a]	220,259	19,787	220,259	0
Inland Gas Co Inc	20,689	1,572	19,882	807
Kentucky West Va Gas Co	194,139	19,493	194,139	0
Texas Eastern Transmission Corp[a]	400	274	400	0
Texas Gas Transmission Corp[a]	2,549	6,112	2,118	431
State Total	438,036	47,238	436,798	1,238
Louisiana				
Northern Louisiana				
ANR Pipeline Co[a]	4,122	1,574	3,377	745
Arkla Inc[a]	488,710	44,705	488,501	209
Columbia Gas Transmission Corp[a]	413,277	24,214	412,949	328
Consolidated Gas Transmission Corp[a]	304	94	304	0
Florida Gas Transmission Co[a]	143,541	20,614	143,541	0
Georgia-Pacific Corp	1,618	2,529	1,618	0
International Paper Co	19,631	2,560	19,631	0
Locust Ridge Gas Co	4,881	809	0	4,881
Louisiana-Nevada Transit Co	30,838	4,087	30,838	0
Mid Louisiana Gas Co	98,393	13,903	96,990	1,403
Mississippi River Transmission Corp	98,228	14,639	87,597	10,631
Natural Gas Pipeline Co of America[a]	30,295	4,595	30,295	0
Southern Natural Gas Co[a]	133,803	17,523	133,781	22
Tennessee Gas Pipeline Div Tenneco	42,273	7,695	39,017	3,256
Texas Eastern Transmission Corp[a]	118,605	29,413	118,587	18
Texas Gas Transmission Corp[a]	93,920	10,562	76,405	17,515
Transcontinental Gas Pipe Line Corp[a]	129,685	4,603	49,130	80,555
Trunkline Gas Co[a]	28,210	514	28,172	38
United Gas Pipe Line Co[a]	267,301	34,645	265,051	2,250
Valley Gas Transmission Inc	4,987	669	4,987	0
Area Total	2,152,622	239,947	2,030,771	121,851
Southern Louisiana Onshore				
ANR Pipeline Co[a]	179,834	53,554	166,950	12,884
Arkla Inc[a]	3,624	281	3,624	0
Bayou Interstate Pipeline System	2,527	2,296	2,527	0
Columbia Gas Transmission Corp[a]	454,210	102,923	436,938	17,272
Crown Zellerbach Corp	0	124	0	0
Eastern Shore Natural Gas Co	0	82	0	0
Florida Gas Transmission Co[a]	145,820	27,163	134,230	11,590
Mid Louisiana Gas Co	30,244	3,156	19,147	11,097
Mississippi River Transmission Corp	547	686	547	0
Natural Gas Pipeline Co of America[a]	4,175	2,204	4,175	0
Northwest Pipeline Corp[a]	4,077	323	4,077	0
Pennsylvania & Southern Gas Co	56	0	0	56
Southern Natural Gas Co [a]	274,770	72,922	160,257	114,513
Tennessee Gas Pipeline Div Tenneco	838,146	102,604	759,535	78,611
Texas Eastern Transmission Corp[a]	139,644	32,014	139,545	99
Texas Gas Transmission Corp[a]	1,268,177	181,025	1,240,969	27,208
Transcontinental Gas Pipe Line Corp[a]	393,744	40,499	357,280	36,464
Trunkline Gas Co[a]	115,654	21,289	107,442	8,212
United Gas Pipe Line Co[a]	684,518	133,426	498,403	186,115
Valley Gas Transmission Inc	2,302	1,004	2,302	0
Area Total	4,542,069	777,575	4,037,948	504,121
Southern Louisiana Warranty[c]				
Florida Gas Transmission Co[a]	66,655	29,270	0	66,655
Texas Eastern Transmission Corp[a]	727,511	190,606	0	727,511
Area Total	794,166	219,876	0	794,166

Note: Footnotes appear at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 7. Dedicated Gas Production and Reserves by Type of Gas by State and Company (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

State	1984 Year-End Gas Reserves	Production	Non-associated	Other
Southern Louisiana Offshore				
ANR Pipeline Co[a]	841,819	196,734	714,863	126,956
Arkla Inc[a]	73,779	22,906	73,779	0
Bayou Interstate Pipeline System	0	3,400	0	0
Columbia Gas Transmission Corp[a]	1,105,488	251,367	914,575	190,913
Consolidated Gas Transmission Corp[a]	189,658	47,618	170,477	19,181
Eastern Shore Natural Gas Co	0	3,032	0	0
El Paso Natural Gas Co[a]	14,340	6,772	14,340	0
Florida Gas Transmission Co[a]	252,795	53,513	161,527	91,268
Mid Louisiana Gas Co	87,909	9,213	60,602	27,307
Mississippi River Transmission Corp	4,876	2,234	4,876	0
Natural Gas Pipeline Co of America[a]	1,749,661	434,430	1,545,253	204,408
Northern Natural Div InterNorth Inc[a]	366,685	132,480	318,019	48,666
Panhandle Eastern Pipe Line Co[a]	82,372	14,205	0	82,372
Sea Robin Pipeline Co[a]	432,006	137,160	293,769	138,237
Southern Natural Gas Co[a]	945,605	227,938	674,879	270,726
Tennessee Gas Pipeline Div Tenneco	3,710,183	650,083	3,005,743	704,440
Texas Eastern Transmission Corp[a]	2,086,049	314,627	1,794,871	291,178
Texas Gas Transmission Corp[a]	590,001	95,191	525,229	64,772
Transcontinental Gas Pipe Line Corp[a]	2,460,729	398,465	1,939,317	521,412
Trunkline Gas Co[a]	1,256,989	212,214	1,114,400	142,589
United Gas Pipe Line Co[a]	490,684	111,698	333,746	156,938
Area Total	16,741,628	3,325,280	13,660,265	3,081,363
State Total	24,230,485	4,562,678	19,728,984	4,501,501
Maryland				
Columbia Gas Transmission Corp[a]	574	60	574	0
Texas Eastern Transmission Corp[a]	144,905	0	144,905	0
State Total	145,479	60	145,479	0
Michigan				
ANR Pipeline Co[a]	149,219	0	149,219	0
Michigan Gas Storage Co	19,770	0	19,770	0
State Total	168,989	0	168,989	0
Minnesota				
Tennessee Gas Pipeline Div Tenneco	0	3,335	0	0
State Total	0	3,335	0	0
Mississippi				
Alabama-Tennessee Natural Gas Co	9,248	1,152	9,248	0
ANR Pipeline Co[a]	2,802	603	2,779	23
Columbia Gas Transmission Corp[a]	590	23	590	0
Crown Zellerbach Corp	2,133	501	0	2,133
Florida Gas Transmission Co[a]	37,304	12,910	36,373	931
Locust Ridge Gas Co	1,017	360	0	1,017
Mid Louisiana Gas Co	268	366	268	0
Southern Natural Gas Co[a]	207,321	38,972	206,129	1,192
Tennessee Gas Pipeline Div Tenneco	98,944	18,944	96,042	2,902
Texas Eastern Transmission Corp[a]	11,177	5,600	9,252	1,925
Transcontinental Gas Pipe Line Corp[a]	332,389	51,127	331,491	898
United Gas Pipe Line Co[a]	40,498	11,951	37,839	2,659
State Total	743,691	142,509	730,011	13,680
Montana				
K N Energy Inc[a]	117,374	4,360	117,374	0
Montana-Dakota Utilities Co[a]	474,070	12,168	375,220	98,850
Northern Natural Div InterNorth Inc[a]	83,611	7,823	83,608	3
State Total	675,055	24,351	576,202	98,853
Nebraska				
K N Energy Inc[a]	91,353	3,547	89,090	2,263
State Total	91,353	3,547	89,090	2,263

Note: Footnotes appear at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 7. Dedicated Gas Production and Reserves by Type of Gas by State and Company (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

State	1984 Year-End Gas Reserves	Production	Non-associated	Other
New Mexico				
San Juan Basin				
El Paso Natural Gas Co[a]	8,974,108	285,280	8,861,948	112,160
Natural Gas Pipeline Co of America[a]	570	118	570	0
Northwest Pipeline Corp[a]	1,714,514	58,874	1,714,514	0
Transwestern Pipeline Co[a]	13,008	2,907	13,008	0
Western Gas Interstate Co	41	0	0	41
Area Total	10,702,241	347,179	10,590,040	112,201
New Mexico Permian Basin				
Colorado Interstate Gas Co[a]	1,390	184	1,390	0
Columbia Gas Transmission Corp[a]	102	126	102	0
El Paso Natural Gas Co[a]	1,628,112	172,856	687,796	940,316
Natural Gas Pipeline Co of America[a]	618,265	60,533	592,004	26,261
Northern Natural Div InterNorth Inc[a]	323,984	50,877	260,912	63,072
Pacific Interstate Transmission Co	161	16	161	0
Panhandle Eastern Pipe Line Co[a]	64	10	64	0
Tennessee Gas Pipeline Div Tenneco	1,630	0	1,630	0
Transcontinental Gas Pipe Line Corp[a]	124	39	124	0
Transwestern Pipeline Co[a]	468,676	98,557	394,501	74,175
United Gas Pipe Line Co[a]	12,963	5,584	12,963	0
Western Gas Interstate Co	1,765	255	0	1,765
Area Total	3,057,236	389,037	1,951,647	1,105,589
State Total	13,759,477	736,216	12,541,687	1,217,790
New York				
Columbia Gas Transmission Corp[a]	88,960	9,932	88,960	0
Consolidated Gas Transmission Corp[a]	6,791	584	6,791	0
National Fuel Gas Supply Corp	64,068	3,285	62,725	1,343
Orange & Rockland Utilities Inc	15,370	0	15,370	0
Tennessee Gas Pipeline Div Tenneco	17,873	567	17,873	0
State Total	193,062	14,368	191,719	1,343
North Dakota				
Montana-Dakota Utilities Co[a]	231,981	18,267	9,515	222,466
State Total	231,981	18,267	9,515	222,466
Ohio				
Columbia Gas Transmission Corp[a]	284,468	36,539	124,934	159,534
Gas Transport Inc	15,210	1,521	15,210	0
Panhandle Eastern Pipe Line Co[a]	3,630	8,781	0	3,630
Tennessee Gas Pipeline Div Tenneco	74,069	3,279	62,695	11,374
Texas Eastern Transmission Corp[a]	23,975	3,647	23,975	0
State Total	401,352	53,767	226,814	174,538
Oklahoma				
ANR Pipeline Co[a]	585,602	108,660	553,392	32,210
Arkansas Oklahoma Gas Corp	16,121	692	16,121	0
Arkla Inc[a]	1,899,439	129,537	1,896,621	2,818
Cimarron Transmission Co	28,469	3,602	2,851	25,618
Colorado Interstate Gas Co[a]	280,978	26,857	280,979	0
Columbia Gas Transmission Corp[a]	23,162	4,772	23,162	0
El Paso Natural Gas Co[a]	1,654,369	161,093	1,634,809	19,560
K N Energy Inc[a]	93,893	15,873	91,953	1,940
Lone Star Gas Co Div Enserch Corp	148,679	23,806	39,142	109,537
Mid Louisiana Gas Co	6,805	302	6,805	0
Mississippi River Transmission Corp	13,347	10,464	13,347	0
Natural Gas Pipeline Co of America[a]	486,894	65,176	388,595	98,299
Northern Natural Div InterNorth Inc[a]	911,739	69,764	893,370	18,369
Northwest Central Pipeline Corp[a]	884,821	66,429	884,398	423
Northwest Pipeline Corp[a]	180,280	4,464	180,280	0
Panhandle Eastern Pipe Line Co[a]	1,066,127	156,066	723,736	342,391
Ringwood Gathering Co	43,801	7,419	0	43,801
Southern Natural Gas Co[a]	139,035	15,245	138,977	58
Tennessee Gas Pipeline Div Tenneco	106,223	16,254	104,247	1,976
Texas Gas Transmission Corp[a]	2,415	4,387	2,415	0

Note: Footnotes appear at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 7. Dedicated Gas Production and Reserves by Type of Gas by State and Company (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

State	1984 Year-End Gas Reserves	Production	Non-associated	Other
Oklahoma				
Transcontinental Gas Pipe Line Corp*	8,502	1,751	8,502	0
Transwestern Pipeline Co*	263,066	50,243	253,526	9,540
Union Gas System Inc	1,345	269	1,345	0
United Gas Pipe Line Co*	372,356	39,853	371,568	788
West Texas Gas Inc	2,232	1,356	0	2,232
Western Gas Interstate Co	8,886	1,881	0	8,886
Wheeler Gas Inc	4,023	149	0	4,023
Zenith Natural Gas Co	814	4	814	0
State Total	9,233,423	986,368	8,510,954	722,469
Pennsylvania				
Blacksville Oil & Gas Co	37	2	37	0
Carnegie Natural Gas Co	21,802	1,928	21,802	0
Columbia Gas Transmission Corp*	258,270	16,525	258,270	0
Consolidated Gas Transmission Corp*	185,076	19,037	185,076	0
Eastern Shore Natural Gas Co	0	1,574	0	0
Equitable Gas Co	37,402	3,015	37,402	0
National Fuel Gas Supply Corp	226,696	13,653	226,696	0
North Penn Gas Co	13,334	0	13,334	0
Tennessee Gas Pipeline Div Tenneco	188,192	6,800	188,192	0
Texas Eastern Transmission Corp*	34,105	5,179	34,105	0
State Total	964,914	67,713	964,914	0
South Dakota				
Montana-Dakota Utilities Co*	11,637	817	7,884	3,753
State Total	11,637	817	7,884	3,753
Tennessee				
East Tennessee Natural Gas Co	1,511	706	391	1,120
Tennessee Gas Pipeline Div Tenneco	3,904	3,331	3,904	0
State Total	5,415	4,037	4,295	1,120
Texas Railroad District No. 1 (North)				
Northern Natural Div InterNorth Inc*	27,769	1,450	27,769	0
District Total	27,769	1,450	27,769	0
Texas Railroad District No. 1 (South)				
Natural Gas Pipeline Co of America*	16,470	11,918	16,470	0
Northern Natural Div InterNorth Inc*	22,328	2,920	20,555	1,773
Tennessee Gas Pipeline Div Tenneco	4,323	191	4,290	33
Transcontinental Gas Pipe Line Corp*	56,624	10,237	55,069	1,555
District Total	99,745	25,266	96,384	3,361
Texas Railroad District No. 2				
Arkla Inc*	25,766	1,342	25,766	0
El Paso Natural Gas Co*	188,039	43,393	188,039	0
Florida Gas Transmission Co*	63,210	49,704	7,033	56,177
Natural Gas Pipeline Co of America*	14,423	6,242	12,165	2,258
Tennessee Gas Pipeline Div Tenneco	60,814	15,786	48,700	12,114
Texas Eastern Transmission Corp*	151,873	51,287	151,549	324
Transcontinental Gas Pipe Line Corp*	111,886	17,505	101,996	9,890
Trunkline Gas Co*	15,277	4,803	15,227	50
United Gas Pipe Line Co*	72,506	17,073	65,995	6,511
Valero Interstate Transmission Co*	231	51	231	0
District Total	704,025	207,186	616,701	87,324
Texas Railroad District No. 3				
Columbia Gas Transmission Corp*	4,596	1,020	4,596	0
Florida Gas Transmission Co*	11,741	4,544	9,828	1,913
National Fuel Gas Supply Corp	22,835	5,805	22,835	0
Natural Gas Pipeline Co of America*	66,028	16,303	61,318	4,710
Northern Natural Div InterNorth Inc*	7,268	1,961	2,636	4,632
Tennessee Gas Pipeline Div Tenneco	84,879	14,832	75,558	9,321
Texas Eastern Transmission Corp*	36,680	8,213	33,480	3,200
Texas Gas Pipeline Corp	7,980	1,708	4,549	3,431

Note: Footnotes appear at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 7. Dedicated Gas Production and Reserves by Type of Gas by State and Company (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

State	1984 Year-End Gas Reserves	Production	Non-associated	Other
Texas Railroad District No. 3				
Texas Gas Transmission Corp[a]	8,410	487	8,410	0
Transcontinental Gas Pipe Line Corp[a]	48,262	4,524	46,389	1,873
Trunkline Gas Co[a]	17,274	3,082	14,531	2,743
United Gas Pipe Line Co[a]	11,680	4,563	9,482	2,198
Valley Gas Transmission Inc	0	1	0	0
District Total	327,633	67,043	293,612	34,021
Texas Railroad District No. 4				
Columbia Gas Transmission Corp[a]	28,154	8,947	0	28,154
Eastern Shore Natural Gas Co	0	1,426	0	0
Florida Gas Transmission Co[a]	68,497	24,980	55,648	12,849
Natural Gas Pipeline Co of America[a]	276,913	78,926	196,114	80,799
Southern Natural Gas Co[a]	754	443	754	0
Tennessee Gas Pipeline Div Tenneco	761,926	89,306	647,141	114,785
Texas Eastern Transmission Corp[a]	49,462	9,072	47,439	2,023
Transcontinental Gas Pipe Line Corp[a]	239,373	28,408	198,292	41,081
Trunkline Gas Co[a]	39,569	10,136	29,014	10,555
United Gas Pipe Line Co[a]	67,591	4,963	52,470	15,121
Valero Interstate Transmission Co[a]	106,054	21,145	106,054	0
Valley Gas Transmission Inc	2,044	785	2,044	0
District Total	1,640,337	278,537	1,334,970	305,367
Texas Railroad District No. 5				
United Gas Pipe Line Co[a]	7,256	2,714	5,554	1,702
District Total	7,256	2,714	5,554	1,702
Texas Railroad District No. 6				
Arkla Inc[a]	444,409	19,068	444,199	210
Mississippi River Transmission Corp	23,755	3,433	23,755	0
Natural Gas Pipeline Co of America[a]	391,855	4,445	387,177	4,678
Southern Natural Gas Co[a]	29,899	6,625	29,480	419
Tennessee Gas Pipeline Div Tenneco	113,333	28,022	113,246	87
Texas Eastern Transmission Corp[a]	144,878	40,233	143,775	1,103
Texas Gas Transmission Corp[a]	45,942	8,520	45,942	0
Transcontinental Gas Pipe Line Corp[a]	5,275	569	5,275	0
United Gas Pipe Line Co[a]	322,497	69,525	297,213	25,284
District Total	1,521,843	180,440	1,490,062	31,781
Texas Railroad District No. 7B				
El Paso Natural Gas Co[a]	329	139	0	329
United Gas Pipe Line Co[a]	222	27	222	0
District Total	551	166	222	329
Texas Railroad District No. 7C				
Columbia Gas Transmission Corp[a]	3,697	46	0	3,697
El Paso Natural Gas Co[a]	828,031	96,374	513,045	314,986
Natural Gas Pipeline Co of America[a]	1,988	194	1,988	0
Northern Natural Div InterNorth Inc[a]	250,388	32,903	204,696	45,692
Panhandle Eastern Pipe Line Co[a]	373	128	373	0
Transcontinental Gas Pipe Line Corp[a]	419	0	419	0
District Total	1,084,896	129,645	720,521	364,375
Texas Railroad District No. 8				
El Paso Natural Gas Co[a]	1,398,922	129,566	513,983	884,939
Natural Gas Pipeline Co of America[a]	93,184	21,323	93,184	0
Northern Natural Div InterNorth Inc[a]	794,909	75,914	666,609	128,300
Pacific Interstate Transmission Co	503	267	503	0
Tennessee Gas Pipeline Div Tenneco	6,643	1,645	6,643	0
Texas Gas Transmission Corp[a]	1,537	625	1,537	0
Transcontinental Gas Pipe Line Corp[a]	1,899	1,010	1,899	0
Transwestern Pipeline Co[a]	612,331	60,086	248,124	364,207
West Texas Gathering Co[a]	61,973	7,645	60,337	1,636
District Total	2,971,901	298,081	1,592,819	1,379,082

Note: Footnotes appear at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 7. Dedicated Gas Production and Reserves by Type of Gas by State and Company (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

State	1984 Year-End Gas Reserves	Production	Non-associated	Other
Texas Railroad District No. 8A				
Caprock Pipeline Co	1,120	369	1,120	0
El Paso Natural Gas Co[a]	53,269	10,193	0	53,269
Northern Natural Div InterNorth Inc[a]	4,839	979	2,705	2,134
District Total	59,228	11,541	3,825	55,403
Texas Railroad District No. 9				
Lone Star Gas Co Div Enserch Corp	24,933	3,617	11,048	13,885
Natural Gas Pipeline Co of America[a]	204,029	43,261	176,299	27,730
Northern Natural Div InterNorth Inc[a]	1,631	334	0	1,631
Texas Eastern Transmission Corp[a]	461	53	461	0
District Total	231,054	47,265	187,808	43,246
Texas Railroad District No. 10				
ANR Pipeline Co[a]	271,800	30,980	268,415	3,385
Arkla Inc[a]	81,582	5,890	81,382	200
Caprock Pipeline Co	20,099	4,549	20,099	0
Colorado Interstate Gas Co[a]	656,925	65,776	619,350	37,575
El Paso Natural Gas Co[a]	274,949	29,226	270,291	4,658
K N Energy Inc[a]	65,488	6,052	65,236	252
Mid Louisiana Gas Co	1,064	175	1,064	0
Mississippi River Transmission Corp	41,411	9,666	40,488	923
Natural Gas Pipeline Co of America[a]	333,336	54,527	325,160	8,176
Northern Natural Div InterNorth Inc[a]	616,584	60,085	533,635	82,949
Northwest Central Pipeline Corp[a]	243,261	13,221	242,361	900
Pacific Interstate Transmission Co	63	16	63	0
Panhandle Eastern Pipe Line Co[a]	478,461	61,138	373,918	104,543
Southern Natural Gas Co[a]	2,741	326	2,227	514
Tennessee Gas Pipeline Div Tenneco	1,128	94	1,128	0
Texas Gas Transmission Corp[a]	799	45	799	0
Transcontinental Gas Pipe Line Corp[a]	495	89	495	0
Transwestern Pipeline Co[a]	214,144	46,985	172,652	41,492
United Gas Pipe Line Co[a]	369	34	369	0
Western Gas Interstate Co	160	11	0	160
District Total	3,304,859	388,885	3,019,132	285,727
Texas Offshore				
ANR Pipeline Co[a]	350,938	94,218	316,787	34,151
Columbia Gas Transmission Corp[a]	107,181	33,679	104,820	2,361
Consolidated Gas Transmission Corp[a]	75,130	25,376	75,130	0
Eastern Shore Natural Gas Co	0	696	0	0
El Paso Natural Gas Co[a]	150,082	39,546	150,082	0
Florida Gas Transmission Co[a]	117,028	14,807	116,928	100
Mississippi River Transmission Corp	1,571	112	1,571	0
Natural Gas Pipeline Co of America[a]	206,392	74,255	201,040	5,352
Northern Natural Div InterNorth Inc[a]	162,428	38,869	153,368	9,060
Panhandle Eastern Pipe Line Co[a]	34,985	4,963	0	34,985
Southern Natural Gas Co[a]	241,376	33,779	199,552	41,824
Tennessee Gas Pipeline Div Tenneco	218,582	66,839	218,582	0
Texas Eastern Transmission Corp[a]	82,024	14,007	82,024	0
Texas Gas Transmission Corp[a]	168,159	60,927	145,085	23,074
Transcontinental Gas Pipe Line Corp[a]	1,671,028	273,732	1,577,670	93,358
Trunkline Gas Co[a]	119,261	28,237	114,817	4,444
United Gas Pipe Line Co[a]	281,283	87,072	271,302	9,981
Washington Gas Light Co	0	26,546	0	0
District Total	3,987,448	917,660	3,728,758	258,690
State Total	15,968,545	2,555,879	13,118,137	2,850,408
Utah				
Colorado Interstate Gas Co[a]	293,811	19,581	293,811	0
El Paso Natural Gas Co[a]	11,133	2,556	10,987	146
Mountain Fuel Resources Inc	151,096	19,394	151,096	0
Natural Gas Pipeline Co of America[a]	246,536	2,960	246,536	0
Northwest Pipeline Corp[a]	166,244	8,068	152,969	13,275
United Gas Pipe Line Co[a]	1,323	194	1,323	0
State Total	870,143	52,753	856,722	13,421

Note: Footnotes appear at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 7. Dedicated Gas Production and Reserves by Type of Gas by State and Company (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

State	1984 Year-End Gas Reserves	Production	Non-associated	Other
Virginia				
Columbia Gas Transmission Corp[a]	54,354	4,704	54,354	0
Consolidated Gas Transmission Corp[a]	4,991	960	4,991	0
East Tennessee Natural Gas Co	1,213	45	1,213	0
Kentucky West Va Gas Co	52,306	3,267	52,306	0
State Total	112,864	8,976	112,864	0
Washington				
Northwest Pipeline Corp[a]	12,527	0	12,527	0
State Total	12,527	0	12,527	0
West Virginia				
Blacksville Oil & Gas Co	17	6	17	0
Carnegie Natural Gas Co	50,251	3,665	50,250	1
Columbia Gas Transmission Corp[a]	499,612	56,246	499,612	0
Consolidated Gas Transmission Corp[a]	764,792	69,883	764,792	0
Equitable Gas Co	137,097	10,638	137,097	0
Tennessee Gas Pipeline Div Tenneco	49,584	9,081	49,584	0
Texas Eastern Transmission Corp[a]	1,685	234	1,685	0
Washington Gas Light Co	3,970	0	3,970	0
State Total	1,507,008	149,753	1,507,007	1
Wyoming				
ANR Pipeline Co[a]	79,036	11,219	79,036	0
Colorado Interstate Gas Co[a]	798,946	79,292	729,482	69,464
Columbia Gas Transmission Corp[a]	479,106	16,634	479,106	0
K N Energy Inc[a]	139,095	12,352	129,857	9,238
MIGC Inc	73,429	8,858	0	73,429
Montana-Dakota Utilities Co[a]	215,985	12,413	123,710	92,275
Mountain Fuel Resources Inc	328,765	41,983	328,765	0
Natural Gas Pipeline Co of America[a]	299,891	38,919	299,891	0
Northern Natural Div InterNorth Inc[a]	118,506	8,267	3,042	115,464
Northwest Central Pipeline Corp[a]	547,121	31,407	547,121	0
Northwest Pipeline Corp[a]	2,169,138	69,163	2,000,874	168,264
Pacific Gas Transmission Co	75,621	2,878	75,621	0
Panhandle Eastern Pipe Line Co[a]	167,869	23,544	91,038	76,831
Tennessee Gas Pipeline Div Tenneco	230,986	15,479	230,986	0
Western Transmission Corp	2,483	658	2,483	0
State Total	5,725,977	373,066	5,121,012	604,965
Undesignated[c]				
Arkla Inc[a]	32,694	0	32,694	0
Colorado Interstate Gas Co[a]	70,126	0	70,126	0
Columbia Gas Transmission Corp[a]	603,223	0	603,223	0
Consolidated Gas Transmission Corp[a]	319,609	0	319,609	0
Equitable Gas Co	46,538	0	46,538	0
Mid Louisiana Gas Co	2,426	0	2,426	0
Mountain Fuel Resources Inc	14,669	0	14,669	0
Panhandle Eastern Pipe Line Co[a]	122,733	0	122,733	0
Pennsylvania & Southern Gas Co	572	0	572	0
Texas Gas Transmission Corp[a]	121,797	0	121,797	0
Transcontinental Gas Pipe Line Corp[a]	76,856	0	76,856	0
Undesignated Total	1,411,243	0	1,411,243	0
Total All Companies	89,893,676	10,421,625	78,845,875	11,047,801

[a] Companies with over 900 billion cubic feet of domestic in-the-ground reserves at the inception of the Form 15 report or date of first filing.
[b] Warranty reserves are reserves guaranteed by contract but not supported by dedication of specific approved sources of supply.
[c] Includes reserves in underground storage which were reported without a State designation.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 8. Dedicated Gas Reserves, Changes in Gas Reserves, Production and R/P Ratios, by State, 1963-1984

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

State	Year	Year-End Reserves	Revisions and Additions Gain or Loss	Annual Production	Net Change in Reserves Gain or Loss	R/P* Ratio
Alabama						
	1963	12	0	13	0	0.9
	1964	240	240	12	228	20.0
	1965	201	7	46	-39	4.4
	1966	199	12	14	-2	14.2
	1967	198	0	1	-1	198.0
	1968	0	-197	1	-198	.0
	1969	1,400	1,400	0	1,400	.0
	1970	1,400	0	0	0	.0
	1971	51,765	50,365	0	50,365	.0
	1972	137,410	86,431	786	85,645	174.8
	1973	116,416	-18,728	2,266	-20,994	51.4
	1974	110,719	-400	5,297	-5,697	20.9
	1975	95,150	-10,089	5,480	-15,569	17.4
	1976	92,434	3,085	5,801	-2,716	15.9
	1977	77,720	-6,009	8,705	-14,714	8.9
	1978	72,407	7,946	13,259	-5,313	5.5
	1979	159,013	103,916	17,310	86,606	9.2
	1980	155,576	33,155	36,592	-3,437	4.3
	1981	176,565	61,856	40,867	20,989	4.3
	1982	145,743	8,131	38,953	-30,822	3.7
	1983	192,535	76,871	30,079	46,792	6.4
	1984	145,678	-13,204	33,653	-46,857	4.3
Total (1963-1984)		0	384,788	239,122	145,666	.0
Percent Change		1,213,883.3	0	258,769.2	0	.0
Arizona						
	1963	26,400	0	1,300	0	20.3
	1964	21,000	-3,900	1,500	-5,400	14.0
	1965	19,200	0	1,800	-1,800	10.7
	1966	20,400	2,900	1,700	1,200	12.0
	1967	19,100	0	1,300	-1,300	14.7
	1968	18,200	0	900	-900	20.2
	1969	13,100	-4,000	1,100	-5,100	11.9
	1970	11,900	0	1,200	-1,200	9.9
	1971	11,100	0	800	-800	13.9
	1972	10,600	0	500	-500	21.2
	1973	698	-9,700	202	-9,902	3.5
Total (1963-1984)		0	-14,700	11,002	-25,702	.0
Percent Change		-97.4	0	-84.5	0	.0
Arkansas						
	1963	1,143,481	0	47,190	0	24.2
	1964	1,336,350	240,653	47,784	192,869	28.0
	1965	1,578,888	296,758	54,220	242,538	29.1
	1966	1,699,979	198,150	77,059	121,091	22.1
	1967	1,903,551	294,286	90,714	203,572	21.0
	1968	1,884,438	94,242	113,355	-19,113	16.6
	1969	1,780,019	33,941	138,360	-104,419	12.9
	1970	1,727,915	91,999	144,103	-52,104	12.0
	1971	1,700,972	104,592	131,535	-26,943	12.9
	1972	1,709,983	136,101	127,090	9,011	13.5
	1973	1,719,005	131,247	122,225	9,022	14.1
	1974	1,631,016	-446	87,543	-87,989	18.6
	1975	1,546,842	-8,087	76,087	-84,174	20.3
	1976	1,510,634	34,598	70,806	-36,208	21.3
	1977	1,466,949	31,309	74,994	-43,685	19.6
	1978	1,318,789	-60,352	87,808	-148,160	15.0
	1979	1,284,003	42,424	77,210	-34,786	16.6
	1980	1,225,663	13,256	71,596	-58,340	17.1
	1981	1,289,247	130,727	67,143	63,584	19.2
	1982	1,346,979	145,493	87,761	57,732	15.3

Note: Footnotes appear at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 8. Dedicated Gas Reserves, Changes in Gas Reserves, Production and R/P Ratios, by State, 1963-1984 (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

State	Year	Year-End Reserves	Revisions and Additions Gain or Loss	Annual Production	Net Change in Reserves Gain or Loss	R/P* Ratio
Arkansas						
	1983	1,396,771	128,954	79,162	49,792	17.6
	1984	1,388,472	75,235	83,534	-8,299	16.6
Total (1963-1984)		0	2,155,080	1,910,089	244,991	.0
Percent Change		21.4	0	77.0	0	.0
California						
	1984	328,108	328,108	0	328,108	.0
Total (1963-1984)		0	328,108	0	328,108	.0
Percent Change		.0	0	.0	0	.0
Colorado						
	1963	1,030,172	0	40,174	0	25.6
	1964	1,040,997	52,969	42,144	10,825	24.7
	1965	1,438,536	446,551	49,012	397,539	29.4
	1966	1,730,282	350,064	58,318	291,746	29.7
	1967	1,693,474	28,583	65,391	-36,808	25.9
	1968	1,703,917	84,874	74,431	10,443	22.9
	1969	1,636,648	7,733	75,002	-67,269	21.8
	1970	1,986,609	430,847	80,886	349,961	24.6
	1971	1,902,460	-4,080	80,069	-84,149	23.8
	1972	1,797,207	-22,117	83,136	-105,253	21.6
	1973	1,974,426	279,073	101,854	177,219	19.4
	1974	1,700,975	-169,958	103,493	-273,451	16.4
	1975	1,875,520	310,137	135,592	174,545	13.8
	1976	1,652,940	-84,285	138,295	-222,580	12.0
	1977	1,789,280	283,423	147,083	136,340	12.2
	1978	1,820,473	181,618	150,425	31,193	12.1
	1979	2,102,443	437,049	155,079	281,970	13.6
	1980	2,215,759	270,701	157,385	113,316	14.1
	1981	1,702,316	-354,804	158,639	-513,443	10.7
	1982	1,687,950	146,473	160,839	-14,366	10.5
	1983	1,716,983	151,073	122,040	29,033	14.1
	1984	1,554,239	-46,482	116,262	-162,744	13.4
Total (1963-1984)		0	2,779,442	2,255,375	524,067	.0
Percent Change		50.9	0	189.4	0	.0
Florida						
	1970	11,998	12,000	2	11,998	5,999.0
	1971	359,309	348,000	689	347,311	521.5
	1972	355,296	9,103	13,116	-4,013	27.1
	1973	314,560	-14,003	26,733	-40,736	11.8
	1974	259,535	-28,087	26,938	-55,025	9.6
	1975	233,475	-5,574	20,486	-26,060	11.4
	1976	217,340	0	16,135	-16,135	13.5
	1977	100,332	-100,002	17,006	-117,008	5.9
	1978	82,014	121	18,439	-18,318	4.4
	1979	64,193	0	17,821	-17,821	3.6
	1980	38,534	-10,663	14,996	-25,659	2.6
	1981	25,802	-3,073	9,659	-12,732	2.7
	1982	24,782	6,704	7,724	-1,020	3.2
	1983	49,506	31,109	6,385	24,724	7.8
	1984	46,540	-51	2,915	-2,966	16.0
Total (1963-1984)		0	245,584	199,044	46,540	.0
Percent Change		287.9	0	145,650.0	0	.0
Idaho						
	1981	0	524	524	0	.0

Note: Footnotes appear at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 8. Dedicated Gas Reserves, Changes in Gas Reserves, Production and R/P Ratios, by State, 1963-1984 (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

State	Year	Year-End Reserves	Revisions and Additions Gain or Loss	Annual Production	Net Change in Reserves Gain or Loss	R/P[1] Ratio
Idaho						
	1982	0	78	78	0	0.0
Total (1963-1984)		0	602	602	0	.0
Percent Change		.0	0	-100.0	0	.0
Illinois						
	1963	1,596	0	428	0	3.7
	1964	0	-1,198	398	-1,596	.0
	1972	266	361	95	266	2.8
	1973	0	-197	69	-266	.0
	1976	0	131	131	0	.0
	1978	534	726	192	534	2.8
	1979	251	-97	186	-283	1.3
	1980	60,105	60,095	241	59,854	249.4
	1981	5,864	-54,046	195	-54,241	30.1
	1982	5,988	600	476	124	12.6
	1983	4,342	-1,412	234	-1,646	18.6
	1984	4,548	423	217	206	21.0
Total (1963-1984)		0	5,386	2,434	2,952	.0
Percent Change		185.0	0	-49.3	0	.0
Indiana						
	1978	120	153	33	120	3.6
	1979	1,668	1,714	166	1,548	10.0
	1980	253,778	261,697	9,587	252,110	26.5
	1981	117,249	-130,367	6,162	-136,529	19.0
	1982	814	-116,397	38	-116,435	21.4
	1983	398	-408	8	-416	49.8
	1984	13	-385	0	-385	.0
Total (1963-1984)		0	16,007	15,994	13	.0
Percent Change		-89.2	0	-100.0	0	.0
Iowa						
	1980	53,636	53,636	0	53,636	.0
	1981	0	-53,636	0	-53,636	.0
Total (1963-1984)		0	0	0	0	.0
Percent Change		-100.0	0	.0	0	.0
Kansas						
	1963	15,414,829	0	633,661	0	24.3
	1964	15,172,476	415,822	658,175	-242,353	23.1
	1965	14,733,216	223,113	662,373	-439,260	22.2
	1966	14,130,876	96,987	699,327	-602,340	20.2
	1967	13,748,844	334,322	716,354	-382,032	19.2
	1968	13,911,541	843,192	680,495	162,697	20.4
	1969	13,453,114	269,893	728,320	-458,427	18.5
	1970	13,003,378	279,017	728,753	-449,736	17.8
	1971	12,472,320	178,356	709,414	-531,058	17.6
	1972	11,945,000	182,875	710,195	-527,320	16.8
	1973	11,351,124	132,431	726,307	-593,876	15.6
	1974	11,273,113	635,968	713,979	-78,011	15.8
	1975	11,062,302	479,981	690,792	-210,811	16.0
	1976	10,858,348	477,044	680,998	-203,954	15.9
	1977	10,650,682	431,830	639,496	-207,666	16.7
	1978	10,151,516	199,024	698,190	-499,166	14.5
	1979	9,862,380	364,332	653,468	-289,136	15.1
	1980	9,517,351	221,350	566,379	-345,029	16.8
	1981	9,108,891	63,607	472,067	-408,460	19.3

Note: Footnotes appear at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 8. Dedicated Gas Reserves, Changes in Gas Reserves, Production and R/P Ratios, by State, 1963-1984 (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

State	Year	Year-End Reserves	Revisions and Additions Gain or Loss	Annual Production	Net Change in Reserves Gain or Loss	R/P[a] Ratio
Kansas						
	1982	9,961,026	1,163,084	310,949	852,135	32.0
	1983	9,757,636	96,453	299,843	-203,390	32.5
	1984	9,523,422	145,132	379,346	-234,214	25.1
Total (1963-1984)		0	7,233,813	13,125,220	-5,891,407	.0
Percent Change		-38.2	0	-40.1	0	.0
Kentucky						
	1963	1,027,086	0	66,165	0	15.5
	1964	1,054,272	97,736	70,550	27,186	14.9
	1965	1,049,127	72,540	77,685	-5,145	13.5
	1966	1,033,140	65,006	80,993	-15,987	12.8
	1967	1,062,492	114,865	85,513	29,352	12.4
	1968	1,023,815	52,279	90,956	-38,677	11.3
	1969	952,167	2,145	73,793	-71,648	12.9
	1970	952,523	68,860	68,504	356	13.9
	1971	946,960	59,061	64,624	-5,563	14.7
	1972	535,127	-343,665	68,168	-411,833	7.9
	1973	505,612	34,716	64,231	-29,515	7.9
	1974	481,124	40,670	65,158	-24,488	7.4
	1975	453,776	35,933	63,281	-27,348	7.2
	1976	471,498	79,093	61,371	17,722	7.7
	1977	437,199	27,070	61,369	-34,299	7.1
	1978	397,996	11,387	50,590	-39,203	7.9
	1979	429,890	72,753	40,859	31,894	10.5
	1980	374,922	-7,413	47,555	-54,968	7.9
	1981	406,165	81,285	50,042	31,243	8.1
	1982	417,357	49,719	38,527	11,192	10.8
	1983	429,596	44,900	32,661	12,239	13.2
	1984	438,036	55,678	47,238	8,440	9.3
Total (1963-1984)		0	714,618	1,303,668	-589,050	.0
Percent Change		-57.4	0	-28.6	0	.0
Louisiana						
	1963	71,660,292	0	3,232,917	0	22.2
	1964	70,930,073	2,756,029	3,486,248	-730,219	20.3
	1965	73,662,883	6,417,170	3,684,360	2,732,810	20.0
	1966	74,304,553	4,739,385	4,097,715	641,670	18.1
	1967	76,919,194	7,265,708	4,651,067	2,614,641	16.5
	1968	75,871,933	4,029,313	5,076,574	-1,047,261	14.9
	1969	76,749,764	6,575,995	5,698,164	877,831	13.5
	1970	72,904,815	2,371,619	6,216,568	-3,844,949	11.7
	1971	66,555,566	-79,380	6,269,869	-6,349,249	10.6
	1972	61,490,159	1,487,827	6,553,234	-5,065,407	9.4
	1973	55,657,386	394,571	6,227,344	-5,832,773	8.9
	1974	47,835,241	-2,024,586	5,797,559	-7,822,145	8.3
	1975	40,449,235	-1,908,293	5,477,713	-7,386,006	7.4
	1976	36,510,313	1,369,878	5,308,800	-3,938,922	6.9
	1977	34,363,814	3,012,665	5,159,164	-2,146,499	6.7
	1978	33,004,924	3,787,824	5,146,714	-1,358,890	6.4
	1979	32,431,872	4,637,139	5,210,191	-573,052	6.2
	1980	31,209,323	3,938,655	5,161,204	-1,222,549	6.0
	1981	29,522,380	3,577,534	5,264,477	-1,686,943	5.6
	1982	28,184,859	3,421,905	4,759,426	-1,337,521	5.9
	1983	26,246,763	2,093,480	4,031,576	-1,938,096	6.5
	1984	24,230,485	2,546,400	4,562,678	-2,016,278	5.3
Total (1963-1984)		0	60,410,838	107,840,645	-47,429,807	.0
Percent Change		-66.2	0	41.1	0	.0

Note: Footnotes appear at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 8. Dedicated Gas Reserves, Changes in Gas Reserves, Production and R/P Ratios, by State, 1963-1984 (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

State	Year	Year-End Reserves	Revisions and Additions Gain or Loss	Annual Production	Net Change in Reserves Gain or Loss	R/P[1] Ratio
Northern Louisiana						
	1963	5,111,996	0	509,312	0	10.0
	1964	4,966,615	392,070	537,451	-145,381	9.2
	1965	4,747,032	267,238	486,821	-219,583	9.8
	1966	4,485,006	212,329	474,355	-262,026	9.5
	1967	4,190,003	162,050	457,053	-295,003	9.2
	1968	3,709,615	-52,900	427,488	-480,388	8.7
	1969	3,460,367	161,250	410,498	-249,248	8.4
	1970	2,932,506	-145,171	382,690	-527,861	7.7
	1971	2,452,292	-165,338	314,876	-480,214	7.8
	1972	2,347,550	219,040	323,782	-104,742	7.3
	1973	2,030,616	-29,112	287,822	-316,934	7.1
	1974	1,758,235	-13,165	259,216	-272,381	6.8
	1975	1,524,887	-18,104	215,244	-233,348	7.1
	1976	1,565,816	243,940	203,011	40,929	7.7
	1977	1,517,543	137,389	185,662	-48,273	8.2
	1978	1,430,633	142,820	229,730	-86,910	6.2
	1979	1,429,924	184,165	184,874	-709	7.7
	1980	1,378,395	153,305	204,834	-51,529	6.7
	1981	1,965,194	810,868	224,069	586,799	8.8
	1982	2,168,026	428,107	225,275	202,832	9.6
	1983	2,231,416	270,570	207,180	63,390	10.8
	1984	2,152,622	161,153	239,947	-78,794	9.0
Total (1963-1984)		0	3,522,504	6,481,878	-2,959,374	.0
Percent Change		-57.9	0	-52.9	0	.0
Southern Louisiana						
	1963	66,548,296	0	2,723,605	0	24.4
	1964	65,963,458	2,363,959	2,948,797	-584,838	22.4
	1965	68,915,851	6,149,932	3,197,539	2,952,393	21.6
	1966	69,819,547	4,527,056	3,623,360	903,696	19.3
	1967	72,729,191	7,103,658	4,194,014	2,909,644	17.3
	1968	72,162,318	4,082,213	4,649,086	-566,873	15.5
	1969	73,289,397	6,414,745	5,287,666	1,127,079	13.9
	1970	69,972,309	2,516,790	5,833,878	-3,317,088	12.0
	1971	64,103,274	85,958	5,954,993	-5,869,035	10.8
	1972	59,142,609	1,268,787	6,229,452	-4,960,665	9.5
	1973	53,626,770	423,683	5,939,522	-5,515,839	9.0
	1974	46,077,006	-2,011,421	5,538,343	-7,549,764	8.3
	1975	38,924,348	-1,890,189	5,262,469	-7,152,658	7.4
	1976	34,944,497	1,125,938	5,105,789	-3,979,851	6.8
	1977	32,846,271	2,875,276	4,973,502	-2,098,226	6.6
	1978	31,574,291	3,645,004	4,916,984	-1,271,980	6.4
	1979	31,001,948	4,452,974	5,025,317	-572,343	6.2
	1980	29,830,928	3,785,350	4,956,370	-1,171,020	6.0
	1981	27,557,186	2,766,666	5,040,408	-2,273,742	5.5
	1982	26,016,833	2,993,798	4,534,151	-1,540,353	5.7
	1983	24,015,347	1,822,910	3,824,396	-2,001,486	6.3
	1984	22,077,863	2,385,247	4,322,731	-1,937,484	5.1
Total (1963-1984)		0	56,888,334	101,358,767	-44,470,433	.0
Percent Change		-66.8	0	58.7	0	.0
Maryland						
	1970	3,771	4,011	240	3,771	15.7
	1971	3,271	-282	218	-500	15.0
	1972	3,027	0	244	-244	12.4
	1973	2,716	-9	302	-311	9.0
	1974	2,639	61	138	-77	19.1
	1975	968	-1,575	96	-1,671	10.1
	1976	611	-278	79	-357	7.7
	1977	582	56	85	-29	6.8
	1978	879	395	98	297	9.0

Note: Footnotes appear at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 8. Dedicated Gas Reserves, Changes in Gas Reserves, Production and R/P Ratios, by State, 1963-1984 (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

State	Year	Year-End Reserves	Revisions and Additions Gain or Loss	Annual Production	Net Change in Reserves Gain or Loss	R/P* Ratio
Maryland						
	1979	825	25	79	-54	10.4
	1980	899	145	71	74	12.7
	1981	141,060	140,220	59	140,161	2,390.8
	1982	142,694	1,671	37	1,634	3,856.6
	1983	137,128	-5,535	31	-5,566	4,423.5
	1984	145,479	8,411	60	8,351	2,424.7
Total (1963-1984)		0	147,316	1,837	145,479	.0
Percent Change		3,757.8	0	-75.0	0	.0
Michigan						
	1982	201,262	201,262	0	201,262	.0
	1983	156,871	-44,391	0	-44,391	.0
	1984	168,989	12,118	0	12,118	.0
Total (1963-1984)		0	168,989	0	168,989	.0
Percent Change		.0	0	.0	0	.0
Minnesota						
	1984	0	3,335	3,335	0	.0
Total (1963-1984)		0	3,335	3,335	0	.0
Percent Change		.0	0	.0	0	.0
Mississippi						
	1963	1,914,258	0	157,428	0	12.2
	1964	1,786,481	15,475	143,252	-127,777	12.5
	1965	1,227,967	-429,155	129,359	-558,514	9.5
	1966	1,298,576	204,700	134,091	70,609	9.7
	1967	1,239,900	60,025	118,701	-58,676	10.4
	1968	1,099,883	-11,810	128,207	-140,017	8.6
	1969	1,000,511	25,179	124,551	-99,372	8.0
	1970	828,217	-56,210	116,084	-172,294	7.1
	1971	692,896	-33,699	101,622	-135,321	6.8
	1972	514,097	-102,520	76,279	-178,799	6.7
	1973	437,457	-3,945	72,695	-76,640	6.0
	1974	303,511	-69,895	64,051	-133,946	4.7
	1975	272,866	14,334	44,979	-30,645	6.1
	1976	229,333	81	43,614	-43,533	5.3
	1977	296,402	126,448	59,379	67,069	5.0
	1978	625,273	390,361	61,490	328,871	10.2
	1979	740,686	219,103	103,690	115,413	7.1
	1980	807,922	179,069	111,833	67,236	7.2
	1981	803,928	121,092	125,086	-3,994	6.4
	1982	1,052,462	372,120	123,586	248,534	8.5
	1983	911,426	-5,978	135,058	-141,036	6.7
	1984	743,691	-25,226	142,509	-167,735	5.2
Total (1963-1984)		0	989,549	2,160,116	-1,170,567	.0
Percent Change		-61.1	0	-9.5	0	.0
Montana						
	1963	209,731	0	4,583	0	45.8
	1964	215,928	11,016	4,819	6,197	44.8
	1965	234,251	23,357	5,034	18,323	46.5
	1966	241,337	11,707	4,621	7,086	52.2
	1967	248,832	11,447	3,952	7,495	63.0
	1968	302,851	57,943	3,924	54,019	77.2
	1969	305,464	11,401	8,788	2,613	34.8
	1970	298,364	519	7,619	-7,100	39.2
	1971	280,690	-13,908	3,766	-17,674	74.5

Note: Footnotes appear at the end of the table.
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Table 8. Dedicated Gas Reserves, Changes in Gas Reserves, Production and R/P Ratios, by State, 1963-1984 (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

State	Year	Year-End Reserves	Revisions and Additions Gain or Loss	Annual Production	Net Change in Reserves Gain or Loss	R/P[a] Ratio
Montana						
	1972	816,075	544,111	8,726	535,385	93.5
	1973	785,860	-14,502	15,713	-30,215	50.0
	1974	832,798	76,660	29,722	46,938	28.0
	1975	828,878	21,633	25,553	-3,920	32.4
	1976	797,800	-4,477	26,601	-31,078	30.0
	1977	704,318	-70,050	23,432	-93,482	30.1
	1978	901,994	220,866	23,190	197,676	38.9
	1979	923,985	58,899	36,908	21,991	25.0
	1980	757,417	-136,110	30,458	-166,568	24.9
	1981	763,171	39,455	33,701	5,754	22.6
	1982	723,238	-8,091	31,842	-39,933	22.7
	1983	686,411	-5,169	31,658	-36,827	21.7
	1984	675,055	12,995	24,351	-11,356	27.7
Total (1963-1984)		0	849,702	384,378	465,324	.0
Percent Change		221.9	0	431.3	0	.0
Nebraska						
	1963	66,136	0	9,040	0	7.3
	1964	60,200	1,535	7,471	-5,936	8.1
	1965	58,950	6,080	7,330	-1,250	8.0
	1966	82,550	31,650	8,050	23,600	10.3
	1967	77,039	1,878	7,389	-5,511	10.4
	1968	69,893	-237	6,909	-7,146	10.1
	1969	58,081	-5,767	6,045	-11,812	9.6
	1970	54,293	1,966	5,754	-3,788	9.4
	1971	54,789	5,428	4,932	496	11.1
	1972	64,903	15,044	4,930	10,114	13.2
	1973	67,830	7,716	4,789	2,927	14.2
	1974	76,643	13,484	4,671	8,813	16.4
	1975	74,375	1,555	3,823	-2,268	19.5
	1976	66,889	-3,657	3,829	-7,486	17.5
	1977	70,535	9,012	5,366	3,646	13.1
	1978	79,538	12,568	3,565	9,003	22.3
	1979	87,650	11,757	3,645	8,112	24.0
	1980	91,065	6,737	3,322	3,415	27.4
	1981	97,454	9,950	3,561	6,389	27.4
	1982	85,561	-8,949	2,944	-11,893	29.1
	1983	83,027	470	3,004	-2,534	27.6
	1984	91,353	11,873	3,547	8,326	25.8
Total (1963-1984)		0	130,093	104,676	25,217	.0
Percent Change		38.1	0	-60.8	0	.0
New Mexico						
	1963	19,517,863	0	614,152	0	31.8
	1964	19,190,056	355,182	682,989	-327,807	28.1
	1965	19,951,936	1,487,558	725,678	761,880	27.5
	1966	20,052,828	903,660	802,768	100,892	25.0
	1967	19,342,751	124,229	834,306	-710,077	23.2
	1968	18,919,609	514,187	937,329	-423,142	20.2
	1969	18,146,139	134,596	908,066	-773,470	20.0
	1970	17,308,112	88,253	926,280	-838,027	18.7
	1971	16,529,510	189,141	967,743	-778,602	17.1
	1972	15,997,299	497,052	1,029,263	-532,211	15.5
	1973	15,363,261	381,980	1,016,018	-634,038	15.1
	1974	14,475,058	134,787	1,022,990	-888,203	14.1
	1975	13,884,786	394,221	984,493	-590,272	14.1
	1976	13,354,680	457,297	987,403	-530,106	13.5
	1977	12,433,347	-9,447	911,886	-921,333	13.6
	1978	13,320,812	1,842,384	954,919	887,465	13.9
	1979	14,997,264	2,646,288	969,836	1,676,452	15.5
	1980	14,805,420	744,461	936,305	-191,844	15.8

Note: Footnotes appear at the end of the table.
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Table 8. Dedicated Gas Reserves, Changes in Gas Reserves, Production and R/P Ratios, by State, 1963-1984 (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

State	Year	Year-End Reserves	Revisions and Additions Gain or Loss	Annual Production	Net Change in Reserves Gain or Loss	R/P* Ratio
New Mexico						
	1981	15,296,716	1,494,459	1,003,163	491,296	15.2
	1982	14,806,070	316,078	806,724	-490,646	18.4
	1983	14,298,086	205,175	713,159	-507,984	20.0
	1984	13,759,477	197,607	736,216	-538,609	18.7
Total (1963-1984)		0	13,099,148	18,857,534	-5,758,386	.0
Percent Change		-29.5	0	19.9	0	.0
San Juan Basin						
	1963	13,997,950	0	301,770	0	46.4
	1964	13,871,671	229,861	356,140	-126,279	39.0
	1965	13,892,254	420,628	400,045	20,583	34.7
	1966	13,872,853	424,557	443,958	-19,401	31.2
	1967	13,581,350	178,452	469,955	-291,503	28.9
	1968	13,249,352	188,431	520,429	-331,998	25.5
	1969	12,886,976	111,614	473,990	-362,376	27.2
	1970	12,266,900	-151,176	468,900	-620,076	26.2
	1971	11,591,500	-180,400	495,000	-675,400	23.4
	1972	11,582,500	523,600	532,600	-9,000	21.7
	1973	11,303,775	208,334	487,059	-278,725	23.2
	1974	10,545,647	-278,486	479,642	-758,128	22.0
	1975	9,832,030	-285,550	428,067	-713,617	23.0
	1976	10,152,752	787,212	466,490	320,722	21.8
	1977	9,305,892	-414,343	432,517	-846,860	21.5
	1978	10,024,879	1,195,012	476,025	718,987	21.1
	1979	11,800,229	2,270,115	494,765	1,775,350	23.9
	1980	11,700,459	404,405	504,175	-99,770	23.2
	1981	11,687,319	491,983	505,123	-13,140	23.1
	1982	11,469,966	163,635	380,988	-217,353	30.1
	1983	11,139,052	-496	330,418	-330,914	33.7
	1984	10,702,241	-89,632	347,179	-436,811	30.8
Total (1963-1984)		0	6,197,756	9,493,465	-3,295,709	.0
Percent Change		-23.5	0	15.0	0	.0
New Mexico Permian Basin						
	1963	5,519,913	0	312,382	0	17.7
	1964	5,318,385	125,321	326,849	-201,528	16.3
	1965	6,059,682	1,066,930	325,633	741,297	18.6
	1966	6,179,975	479,103	358,810	120,293	17.2
	1967	5,761,401	-54,223	364,351	-418,574	15.8
	1968	5,670,257	325,756	416,900	-91,144	13.6
	1969	5,259,163	22,982	434,076	-411,094	12.1
	1970	5,041,212	239,429	457,380	-217,951	11.0
	1971	4,938,010	369,541	472,743	-103,202	10.4
	1972	4,414,799	-26,548	496,663	-523,211	8.9
	1973	4,059,486	173,646	528,959	-355,313	7.7
	1974	3,929,411	413,273	543,348	-130,075	7.2
	1975	4,052,756	679,771	556,426	123,345	7.3
	1976	3,201,928	-329,915	520,913	-850,828	6.1
	1977	3,127,455	404,896	479,369	-74,473	6.5
	1978	3,295,933	647,372	478,894	168,478	6.9
	1979	3,197,035	376,173	475,071	-98,898	6.7
	1980	3,104,961	340,056	432,130	-92,074	7.2
	1981	3,609,397	1,002,476	498,040	504,436	7.2
	1982	3,336,104	152,443	425,736	-273,293	7.8
	1983	3,159,034	205,671	382,741	-177,070	8.3
	1984	3,057,236	287,239	389,037	-101,798	7.9
Total (1963-1984)		0	6,901,392	9,364,069	-2,462,677	.0
Percent Change		-44.6	0	24.5	0	.0

Note: Footnotes appear at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 8. Dedicated Gas Reserves, Changes in Gas Reserves, Production and R/P Ratios, by State, 1963-1984 (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

State	Year	Year-End Reserves	Revisions and Additions Gain or Loss	Annual Production	Net Change in Reserves Gain or Loss	R/P* Ratio
New York						
	1963	9,772	0	1,136	0	8.6
	1964	4,979	-3,737	1,056	-4,793	4.7
	1965	4,478	833	1,334	-501	3.4
	1966	4,625	1,053	906	147	5.1
	1967	3,947	-10	668	-678	5.9
	1968	3,671	287	563	-276	6.5
	1969	3,070	54	655	-601	4.7
	1970	4,084	1,626	612	1,014	6.7
	1971	3,391	-89	604	-693	5.6
	1972	22,833	21,131	1,689	19,442	13.5
	1973	16,281	-4,508	2,044	-6,552	8.0
	1974	27,166	13,526	2,641	10,885	10.3
	1975	29,940	6,773	3,999	2,774	7.5
	1976	33,516	6,705	3,129	3,576	10.7
	1977	25,716	-5,700	2,100	-7,800	12.2
	1978	21,970	-1,934	1,812	-3,746	12.1
	1979	24,465	7,880	5,385	2,495	4.5
	1980	37,077	15,341	2,729	12,612	13.6
	1981	69,940	41,469	8,606	32,863	8.1
	1982	107,155	45,382	8,167	37,215	13.1
	1983	195,241	97,273	9,187	88,086	21.3
	1984	193,062	12,189	14,368	-2,179	13.4
Total (1963-1984)		0	255,544	72,254	183,290	.0
Percent Change		1,875.7	0	1,164.8	0	.0
North Dakota						
	1963	545,064	0	19,694	0	27.7
	1964	524,295	0	20,769	-20,769	25.2
	1965	464,064	-40,571	19,660	-60,231	23.6
	1966	443,705	0	20,359	-20,359	21.8
	1967	423,900	1	19,806	-19,805	21.4
	1968	264,393	-140,823	18,684	-159,507	14.2
	1969	247,596	936	17,733	-16,797	14.0
	1970	213,159	-17,404	17,033	-34,437	12.5
	1971	193,496	-4,590	15,073	-19,663	12.8
	1972	178,107	-4,961	10,428	-15,389	17.1
	1973	261,163	97,267	14,211	83,056	18.4
	1974	252,690	3,060	11,533	-8,473	21.9
	1975	239,120	-1,820	11,750	-13,570	20.4
	1976	226,939	-2,263	9,918	-12,181	22.9
	1977	223,150	7,013	10,802	-3,789	20.7
	1978	230,772	18,825	11,203	7,622	20.6
	1979	219,435	2,831	14,168	-11,337	15.5
	1980	309,369	109,037	19,103	89,934	16.2
	1981	293,944	6,965	22,390	-15,425	13.1
	1982	291,490	23,542	25,996	-2,454	11.2
	1983	236,101	-22,555	32,834	-55,389	7.2
	1984	231,981	14,147	18,267	-4,120	12.7
Total (1963-1984)		0	48,637	361,720	-313,083	.0
Percent Change		-57.4	0	-7.2	0	.0
Ohio						
	1963	131,968	0	22,815	0	5.8
	1964	103,271	-7,693	21,004	-28,697	4.9
	1965	89,145	6,782	20,908	-14,126	4.3
	1966	80,323	13,220	22,042	-8,822	3.6
	1967	72,024	11,540	19,839	-8,299	3.6
	1968	96,334	43,079	18,769	24,310	5.1
	1969	109,648	39,592	26,278	13,314	4.2
	1970	156,179	76,767	30,236	46,531	5.2
	1971	157,926	31,384	29,637	1,747	5.3

Note: Footnotes appear at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 8. Dedicated Gas Reserves, Changes in Gas Reserves, Production and R/P Ratios, by State, 1963-1984 (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

State	Year	Year-End Reserves	Revisions and Additions Gain or Loss	Annual Production	Net Change in Reserves Gain or Loss	R/P* Ratio
Ohio						
	1972	174,394	46,311	29,843	16,468	5.8
	1973	201,255	55,761	28,900	26,861	7.0
	1974	215,228	43,199	29,226	13,973	7.4
	1975	196,010	7,446	26,664	-19,218	7.4
	1976	168,636	-1,830	25,544	-27,374	6.6
	1977	147,133	3,056	24,559	-21,503	6.0
	1978	142,472	18,758	23,419	-4,661	6.1
	1979	148,271	30,921	25,122	5,799	5.9
	1980	194,231	80,990	35,030	45,960	5.5
	1981	220,481	67,428	41,178	26,250	5.4
	1982	362,612	191,895	49,764	142,131	7.3
	1983	400,079	95,120	57,653	37,467	6.9
	1984	401,352	56,040	53,767	1,273	7.5
Total (1963-1984)		0	908,766	639,382	269,384	.0
Percent Change		204.1	0	135.7	0	.0
Oklahoma						
	1963	13,807,958	0	692,612	0	19.9
	1964	14,154,497	1,152,836	806,297	346,539	17.6
	1965	14,273,119	973,673	855,051	118,622	16.7
	1966	14,851,336	1,538,041	959,824	578,217	15.5
	1967	15,105,087	1,285,640	1,031,889	253,751	14.6
	1968	15,072,880	1,065,536	1,097,743	-32,207	13.7
	1969	14,580,628	707,404	1,199,656	-492,252	12.2
	1970	14,022,418	692,154	1,250,364	-558,210	11.2
	1971	12,682,297	-129,632	1,210,489	-1,340,121	10.5
	1972	11,498,788	2,917	1,186,426	-1,183,509	9.7
	1973	10,359,298	-35,432	1,104,058	-1,139,490	9.4
	1974	9,388,829	107,037	1,077,506	-970,469	8.7
	1975	8,510,250	113,909	992,488	-878,579	8.6
	1976	7,889,565	298,957	919,642	-620,685	8.6
	1977	7,390,731	367,144	865,978	-498,834	8.5
	1978	7,796,285	1,263,118	857,564	405,554	9.1
	1979	8,207,915	1,356,252	944,622	411,630	8.7
	1980	9,125,085	1,871,008	953,838	917,170	9.6
	1981	8,577,060	453,113	1,001,138	-548,025	8.6
	1982	10,230,428	2,771,389	1,118,021	1,653,368	9.2
	1983	9,777,234	434,919	888,113	-453,194	11.0
	1984	9,233,423	442,557	986,368	-543,811	9.4
Total (1963-1984)		0	16,732,540	21,307,075	-4,574,535	.0
Percent Change		-33.1	0	42.4	0	.0
Pennsylvania						
	1963	609,800	0	48,890	0	12.5
	1964	582,136	13,284	40,948	-27,664	14.2
	1965	607,753	64,395	38,778	25,617	15.7
	1966	603,948	39,793	43,598	-3,805	13.9
	1967	566,853	7,771	44,866	-37,095	12.6
	1968	379,842	-147,107	39,904	-187,011	9.5
	1969	344,087	508	36,263	-35,755	9.5
	1970	327,220	18,942	35,809	-16,867	9.1
	1971	343,509	47,472	31,183	16,289	11.0
	1972	326,747	16,974	33,736	-16,762	9.7
	1973	363,144	70,912	34,515	36,397	10.5
	1974	364,107	37,200	36,237	963	10.0
	1975	384,814	54,622	33,915	20,707	11.3
	1976	396,715	46,227	34,326	11,901	11.6
	1977	426,408	58,308	28,615	29,693	14.9
	1978	433,449	39,174	32,133	7,041	13.5
	1979	468,244	63,832	29,037	34,795	16.1
	1980	590,176	163,780	41,848	121,932	14.1

Note: Footnotes appear at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 8. Dedicated Gas Reserves, Changes in Gas Reserves, Production and R/P Ratios, by State, 1963-1984 (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

State	Year	Year-End Reserves	Revisions and Additions Gain or Loss	Annual Production	Net Change in Reserves Gain or Loss	R/P[a] Ratio
Pennsylvania						
	1981	823,579	295,615	62,212	233,403	13.2
	1982	967,329	216,403	72,653	143,750	13.3
	1983	985,277	83,540	65,592	17,948	15.0
	1984	964,914	47,350	67,713	-20,363	14.3
Total (1963-1984)		0	1,238,995	883,881	355,114	.0
Percent Change		58.2	0	38.5	0	.0
South Dakota						
	1978	6,000	6,000	0	6,000	.0
	1979	7,758	2,600	842	1,758	9.2
	1980	8,490	1,850	1,118	732	7.6
	1981	15,420	8,098	1,168	6,930	13.2
	1982	14,952	1,394	1,862	-468	8.0
	1983	13,651	2	1,303	-1,301	10.5
	1984	11,637	-1,197	817	-2,014	14.2
Total (1963-1984)		0	18,747	7,110	11,637	.0
Percent Change		94.0	0	.0	0	.0
Tennessee						
	1968	250	252	2	250	125.0
	1969	10	-237	3	-240	3.3
	1970	10	0	0	0	.0
	1973	1,615	1,605	0	1,605	.0
	1974	2,497	882	0	882	.0
	1975	2,497	0	0	0	.0
	1976	2,497	0	0	0	.0
	1981	26	-2,439	32	-2,471	.8
	1982	8,878	9,136	284	8,852	31.3
	1983	7,648	2,583	3,813	-1,230	2.0
	1984	5,415	1,804	4,037	-2,233	1.3
Total (1963-1984)		0	13,586	8,171	5,415	.0
Percent Change		2,066.0	0	201,750.0	0	.0
Texas						
	1963	52,668,983	0	3,222,919	0	16.3
	1964	53,651,366	4,358,367	3,375,984	982,383	15.9
	1965	53,503,297	3,288,494	3,436,563	-148,069	15.6
	1966	55,184,451	5,205,077	3,523,923	1,681,154	15.7
	1967	56,470,413	4,800,784	3,514,822	1,285,962	16.1
	1968	55,010,407	2,150,518	3,610,524	-1,460,006	15.2
	1969	49,067,574	-2,213,970	3,728,863	-5,942,833	13.2
	1970	41,361,659	-3,821,924	3,883,991	-7,705,915	10.6
	1971	37,990,952	425,130	3,795,837	-3,370,707	10.0
	1972	32,637,487	-1,619,684	3,733,781	-5,353,465	8.7
	1973	28,651,862	-409,068	3,576,557	-3,985,625	8.0
	1974	25,139,850	-164,180	3,347,832	-3,512,012	7.5
	1975	20,360,237	-1,819,122	2,960,491	-4,779,613	6.9
	1976	17,567,503	-161,163	2,631,571	-2,792,734	6.7
	1977	16,127,735	979,002	2,418,770	-1,439,768	6.7
	1978	17,255,431	3,412,507	2,284,811	1,127,696	7.6
	1979	17,977,739	3,472,299	2,749,991	722,308	6.5
	1980	17,409,917	2,313,909	2,881,731	-567,822	6.0
	1981	18,573,606	4,177,514	3,013,825	1,163,689	6.2
	1982	17,387,220	1,537,468	2,723,854	-1,186,386	6.4
	1983	16,723,718	1,750,991	2,414,493	-663,502	6.9
	1984	15,968,545	1,800,706	2,555,879	-755,173	6.2
Total (1963-1984)		0	29,463,655	66,164,093	-36,700,438	.0
Percent Change		-69.7	0	-20.7	0	.0

Note: Footnotes appear at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 8. Dedicated Gas Reserves, Changes in Gas Reserves, Production and R/P Ratios, by State, 1963-1984 (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

State	Year	Year-End Reserves	Revisions and Additions Gain or Loss	Annual Production	Net Change in Reserves Gain or Loss	R/P* Ratio
Texas Railroad District No. 1 (North)						
	1963	63,381	0	3,869	0	16.4
	1964	54,662	-3,640	5,079	-8,719	10.8
	1965	56,138	5,238	3,762	1,476	14.9
	1966	52,619	-141	3,378	-3,519	15.6
	1967	49,253	-503	2,863	-3,366	17.2
	1968	45,572	-715	2,966	-3,681	15.4
	1969	44,199	1,685	3,058	-1,373	14.5
	1970	40,777	-11	3,411	-3,422	12.0
	1971	39,070	2,573	4,280	-1,707	9.1
	1972	39,623	3,364	2,811	553	14.1
	1973	36,141	313	3,795	-3,482	9.5
	1974	45,495	13,157	3,803	9,354	12.0
	1975	41,021	-332	4,142	-4,474	9.9
	1976	37,043	-240	3,738	-3,978	9.9
	1977	34,204	478	3,317	-2,839	10.3
	1978	36,595	5,709	3,318	2,391	11.0
	1979	39,851	6,254	2,998	3,256	13.3
	1980	16,159	-19,911	3,781	-23,692	4.3
	1981	32,780	23,236	6,615	16,621	5.0
	1982	32,151	3,124	3,753	-629	8.6
	1983	28,344	-2,370	1,437	-3,807	19.7
	1984	27,769	875	1,450	-575	19.2
Total (1963-1984)		0	38,143	73,755	-35,612	.0
Percent Change		-56.2	0	-62.5	0	.0
Texas Railroad District No. 1 (South)						
	1963	1,685,227	0	68,838	0	24.5
	1964	1,580,749	-35,962	68,516	-104,478	23.1
	1965	588,192	-931,344	61,213	-992,557	9.6
	1966	541,094	11,795	58,893	-47,098	9.2
	1967	503,339	9,543	47,298	-37,755	10.6
	1968	405,252	-58,695	39,392	-98,087	10.3
	1969	337,857	-34,624	32,771	-67,395	10.3
	1970	278,516	-23,399	35,942	-59,341	7.7
	1971	166,831	-77,589	34,096	-111,685	4.9
	1972	134,839	-2,238	29,754	-31,992	4.5
	1973	181,110	78,509	32,238	46,271	5.6
	1974	162,894	27,514	45,730	-18,216	3.6
	1975	145,024	19,340	37,210	-17,870	3.9
	1976	143,572	35,165	36,617	-1,452	3.9
	1977	130,993	23,577	36,156	-12,579	3.6
	1978	130,948	35,425	35,470	-45	3.7
	1979	148,979	47,794	29,763	18,031	5.0
	1980	121,388	1,696	29,287	-27,591	4.1
	1981	168,163	74,056	27,281	46,775	6.2
	1982	133,668	-5,596	28,899	-34,495	4.6
	1983	97,765	-11,272	24,631	-35,903	4.0
	1984	99,745	27,246	25,266	1,980	3.9
Total (1963-1984)		0	-789,059	796,423	-1,585,482	.0
Percent Change		-94.1	0	-63.3	0	.0
Texas Railroad District No. 2						
	1963	4,864,112	0	330,667	0	14.7
	1964	4,584,487	62,552	342,177	-279,625	13.4
	1965	4,076,858	-180,279	327,350	-507,629	12.5
	1966	3,466,305	-298,702	311,851	-610,553	11.1
	1967	2,841,291	-360,124	264,890	-625,014	10.7
	1968	2,496,730	-99,472	245,089	-344,561	10.2
	1969	2,075,879	-188,320	232,531	-420,851	8.9
	1970	1,715,090	-166,748	194,041	-360,789	8.8
	1971	1,454,790	-76,816	183,484	-260,300	7.9

Note: Footnotes appear at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 8. Dedicated Gas Reserves, Changes in Gas Reserves, Production and R/P Ratios, by State, 1963-1984 (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

State	Year	Year-End Reserves	Revisions and Additions Gain or Loss	Annual Production	Net Change in Reserves Gain or Loss	R/P* Ratio
Texas Railroad District No. 2						
	1972	1,303,237	24,532	176,085	-151,553	7.4
	1973	1,110,733	-29,939	162,565	-192,504	6.8
	1974	898,492	-59,631	152,610	-212,241	5.9
	1975	677,575	-101,824	119,093	-220,917	5.7
	1976	573,164	3,847	108,258	-104,411	5.3
	1977	550,595	72,331	94,900	-22,569	5.8
	1978	578,619	112,842	84,818	28,024	6.8
	1979	716,626	226,283	88,276	138,007	8.1
	1980	661,009	50,105	105,722	-55,617	6.3
	1981	553,979	-2,762	104,268	-107,030	5.3
	1982	826,401	411,231	138,809	272,422	6.0
	1983	753,625	82,006	154,782	-72,776	4.9
	1984	704,025	157,586	207,186	-49,600	3.4
Total (1963-1984)		0	-361,302	3,798,785	-4,160,087	.0
Percent Change		-85.5	0	-37.3	0	.0
Texas Railroad District No. 3						
	1963	5,078,311	0	387,472	0	13.1
	1964	4,977,012	280,602	381,901	-101,299	13.0
	1965	4,505,727	-78,387	392,898	-471,285	11.5
	1966	4,083,560	-29,797	392,370	-422,167	10.4
	1967	3,711,985	-2,806	368,769	-371,575	10.1
	1968	2,765,198	-586,301	360,486	-946,787	7.7
	1969	2,403,337	-24,434	337,427	-361,861	7.1
	1970	1,981,142	-108,115	314,080	-422,195	6.3
	1971	1,671,560	-46,353	263,229	-309,582	6.4
	1972	1,173,380	-218,758	279,422	-498,180	4.2
	1973	987,425	3,890	189,845	-185,955	5.2
	1974	892,577	56,488	151,336	-94,848	5.9
	1975	767,343	8,565	133,799	-125,234	5.7
	1976	587,611	-52,635	127,097	-179,732	4.6
	1977	475,893	-11,676	100,042	-111,718	4.8
	1978	542,900	148,901	81,894	67,007	6.6
	1979	588,421	171,902	126,381	45,521	4.7
	1980	539,006	42,920	92,335	-49,415	5.8
	1981	574,549	161,432	125,889	35,543	4.6
	1982	486,274	16,283	104,558	-88,275	4.7
	1983	418,175	13,855	81,954	-68,099	5.1
	1984	327,633	-23,499	67,043	-90,542	4.9
Total (1963-1984)		0	-277,923	4,472,755	-4,750,678	.0
Percent Change		-93.5	0	-82.7	0	.0
Texas Railroad District No. 4						
	1963	11,212,220	0	652,194	0	17.2
	1964	11,878,975	1,343,910	677,155	666,755	17.5
	1965	12,556,777	1,398,834	721,032	677,802	17.4
	1966	11,606,704	-195,249	754,824	-950,073	15.4
	1967	12,470,267	1,645,773	782,210	863,563	15.9
	1968	11,459,632	-212,318	798,317	-1,010,635	14.4
	1969	10,140,480	-521,612	797,540	-1,319,152	12.7
	1970	8,493,310	-826,647	820,523	-1,647,170	10.4
	1971	7,802,139	111,923	803,094	-691,171	9.7
	1972	6,284,407	-763,031	754,701	-1,517,732	8.3
	1973	5,850,371	269,928	703,964	-434,036	8.3
	1974	4,921,859	-309,209	619,303	-928,512	7.9
	1975	3,638,375	-803,868	479,616	-1,283,484	7.6
	1976	3,028,432	-200,661	409,282	-609,943	7.4
	1977	2,398,730	-258,942	370,760	-629,702	6.5
	1978	2,392,194	285,213	291,749	-6,536	8.2
	1979	2,302,138	222,881	312,937	-90,056	7.4
	1980	2,344,940	340,609	297,807	42,802	7.9

Note: Footnotes appear at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 8. Dedicated Gas Reserves, Changes in Gas Reserves, Production and R/P Ratios, by State, 1963-1984 (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

State	Year	Year-End Reserves	Revisions and Additions Gain or Loss	Annual Production	Net Change in Reserves Gain or Loss	R/P[a] Ratio
Texas Railroad District No. 4						
	1981	2,370,791	503,024	477,173	25,851	5.0
	1982	1,973,087	-120,979	276,725	-397,704	7.1
	1983	1,750,306	30,670	253,451	-222,781	6.9
	1984	1,640,337	168,568	278,537	-109,969	5.9
Total (1963-1984)		0	2,108,817	11,680,700	-9,571,883	.0
Percent Change		-85.4	0	-57.3	0	.0
Texas Railroad District No. 5						
	1963	34,202	0	2,133	0	16.0
	1964	33,221	556	1,537	-981	21.6
	1965	32,721	784	1,284	-500	25.5
	1966	31,558	232	1,395	-1,163	22.6
	1967	22,518	-7,597	1,443	-9,040	15.6
	1968	26,395	5,496	1,619	3,877	16.3
	1969	8,968	-15,761	1,666	-17,427	5.4
	1970	6,707	17	2,278	-2,261	2.9
	1971	38,535	34,329	2,501	31,828	15.4
	1972	35,196	-27	3,312	-3,339	10.6
	1973	31,322	-137	3,737	-3,874	8.4
	1974	27,841	13	3,494	-3,481	8.0
	1975	24,355	-18	3,468	-3,486	7.0
	1976	22,087	394	2,662	-2,268	8.3
	1977	20,133	40	1,994	-1,954	10.1
	1978	18,582	12	1,563	-1,551	11.9
	1979	14,767	-614	3,201	-3,815	4.6
	1980	13,186	4,197	5,778	-1,581	2.3
	1981	9,273	1,921	5,834	-3,913	1.6
	1982	13,943	10,603	5,933	4,670	2.4
	1983	11,582	2,156	4,517	-2,361	2.6
	1984	7,256	-1,612	2,714	-4,326	2.7
Total (1963-1984)		0	34,984	61,930	-26,946	.0
Percent Change		-78.8	0	27.2	0	.0
Texas Railroad District No. 6						
	1963	2,302,290	0	348,576	0	6.6
	1964	2,393,834	402,050	310,506	91,544	7.7
	1965	2,287,227	209,534	316,141	-106,607	7.2
	1966	2,170,335	182,765	299,657	-116,892	7.2
	1967	1,959,820	67,585	278,100	-210,515	7.0
	1968	1,918,234	206,960	248,546	-41,586	7.7
	1969	1,675,753	-25,754	216,727	-242,481	7.7
	1970	1,331,608	-102,963	191,182	-294,145	7.2
	1971	1,177,681	-42,852	161,075	-203,927	7.3
	1972	1,056,438	39,036	160,279	-121,243	6.6
	1973	948,767	36,715	144,386	-107,671	6.6
	1974	968,931	149,928	129,764	20,164	7.5
	1975	830,569	-17,369	120,993	-138,362	6.9
	1976	727,440	8,555	111,684	-103,129	6.5
	1977	759,362	138,431	106,509	31,922	7.1
	1978	818,502	173,334	114,194	59,140	7.2
	1979	1,078,943	475,678	215,237	260,441	5.0
	1980	1,317,391	557,647	319,199	238,448	4.1
	1981	1,399,147	277,348	195,592	81,756	7.2
	1982	1,511,970	297,423	184,600	112,823	8.2
	1983	1,507,849	142,306	146,427	-4,121	10.3
	1984	1,521,843	194,434	180,440	13,994	8.4
Total (1963-1984)		0	3,370,791	4,151,238	-780,447	.0
Percent Change		-33.9	0	-48.2	0	.0

Note: Footnotes appear at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 8. Dedicated Gas Reserves, Changes in Gas Reserves, Production and R/P Ratios, by State, 1963-1984 (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

State	Year	Year-End Reserves	Revisions and Additions Gain or Loss	Annual Production	Net Change in Reserves Gain or Loss	R/P* Ratio
Texas Railroad District No. 7B						
	1963	46,547	0	7,109	0	6.5
	1964	45,314	5,908	7,141	-1,233	6.3
	1965	39,198	1,540	7,656	-6,116	5.1
	1966	52,435	20,195	6,958	13,237	7.5
	1967	46,429	0	6,006	-6,006	7.7
	1968	43,084	2,486	5,831	-3,345	7.4
	1969	39,537	0	3,547	-3,547	11.1
	1970	44,678	8,017	2,876	5,141	15.5
	1971	34,609	-7,952	2,117	-10,069	16.3
	1972	90,366	57,928	2,171	55,757	41.6
	1973	10,401	-78,666	1,299	-79,965	8.0
	1974	5,226	-4,055	1,120	-5,175	4.7
	1975	4,301	131	1,056	-925	4.1
	1976	3,341	1	961	-960	3.5
	1977	4,253	1,572	660	912	6.4
	1978	11,664	8,769	1,358	7,411	8.6
	1979	23,826	14,319	2,157	12,162	11.0
	1980	17,869	-2,183	3,774	-5,957	4.7
	1981	1,424	-16,245	200	-16,445	7.1
	1982	2,222	1,322	524	798	4.2
	1983	709	-1,275	238	-1,513	3.0
	1984	551	8	166	-158	3.3
Total (1963-1984)		0	11,820	57,816	-45,996	.0
Percent Change		-98.8	0	-97.7	0	.0
Texas Railroad District No. 7C						
	1963	2,472,362	0	110,295	0	22.4
	1964	2,857,648	517,049	131,763	385,286	21.7
	1965	2,985,879	262,582	134,351	128,231	22.2
	1966	2,308,580	-546,683	130,616	-677,299	17.7
	1967	2,946,912	785,732	147,400	638,332	20.0
	1968	3,124,124	318,004	140,792	177,212	22.2
	1969	2,703,781	-247,831	172,512	-420,343	15.7
	1970	2,598,989	60,884	165,676	-104,792	15.7
	1971	2,581,063	155,988	173,914	-17,926	14.8
	1972	2,224,834	-184,186	172,043	-356,229	12.9
	1973	1,902,703	-131,885	190,246	-322,131	10.0
	1974	1,688,005	-29,761	184,937	-214,698	9.1
	1975	1,263,312	-266,822	157,871	-424,693	8.0
	1976	1,001,709	-116,137	145,466	-261,603	6.9
	1977	948,468	76,693	129,934	-53,241	7.3
	1978	977,921	151,101	121,648	29,453	8.0
	1979	1,049,200	187,881	116,602	71,279	9.0
	1980	1,140,264	245,739	154,675	91,064	7.4
	1981	1,104,298	111,940	147,906	-35,966	7.5
	1982	1,107,419	132,631	129,510	3,121	8.6
	1983	1,040,536	59,403	126,286	-66,883	8.2
	1984	1,084,896	174,005	129,645	44,360	8.4
Total (1963-1984)		0	1,716,327	3,103,793	-1,387,466	.0
Percent Change		-56.1	0	17.5	0	.0
Texas Railroad District No. 8						
	1963	9,307,062	0	433,608	0	21.5
	1964	10,466,423	1,697,182	537,821	1,159,361	19.5
	1965	12,612,665	2,690,437	544,195	2,146,242	23.2
	1966	16,675,277	4,647,381	584,769	4,062,612	28.5
	1967	18,337,218	2,272,559	610,618	1,661,941	30.0
	1968	19,526,445	1,987,392	798,165	1,189,227	24.5
	1969	16,655,299	-1,914,642	956,504	-2,871,146	17.4
	1970	13,160,109	-2,419,893	1,075,297	-3,495,190	12.2
	1971	12,307,312	249,934	1,102,731	-852,797	11.2

Note: Footnotes appear at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 8. Dedicated Gas Reserves, Changes in Gas Reserves, Production and R/P Ratios, by State, 1963-1984 (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

State	Year	Year-End Reserves	Revisions and Additions Gain or Loss	Annual Production	Net Change in Reserves Gain or Loss	R/P* Ratio
Texas Railroad District No. 8						
	1972	10,636,582	-596,964	1,073,766	-1,670,730	9.9
	1973	9,063,723	-538,353	1,034,506	-1,572,859	8.8
	1974	7,737,050	-375,102	951,571	-1,326,673	8.1
	1975	6,098,158	-744,767	894,125	-1,638,892	6.8
	1976	5,333,500	1,601	766,259	-764,658	7.0
	1977	4,691,436	36,497	678,561	-642,064	6.9
	1978	4,160,889	76,042	606,589	-530,547	6.9
	1979	3,800,865	219,048	579,072	-360,024	6.6
	1980	3,397,492	128,390	531,763	-403,373	6.4
	1981	3,152,297	225,322	470,517	-245,195	6.7
	1982	3,069,367	315,821	398,751	-82,930	7.7
	1983	2,998,872	234,121	304,616	-70,495	9.8
	1984	2,971,901	271,110	298,081	-26,971	10.0
Total (1963-1984)		0	8,463,116	14,798,277	-6,335,161	.0
Percent Change		-68.1	0	-31.3	0	.0
Texas Railroad District No. 8A						
	1963	1,506,890	0	53,062	0	28.4
	1964	1,098,497	-361,208	47,185	-408,393	23.3
	1965	1,047,394	-718	50,385	-51,103	20.8
	1966	1,924,988	943,815	66,221	877,594	29.1
	1967	1,848,157	345	77,176	-76,831	23.9
	1968	1,768,569	5,109	84,697	-79,588	20.9
	1969	1,725,684	42,314	85,199	-42,885	20.3
	1970	1,317,343	-303,809	104,532	-408,341	12.6
	1971	1,047,531	-180,712	89,100	-269,812	11.8
	1972	687,155	-293,010	67,366	-360,376	10.2
	1973	355,474	-273,088	58,593	-331,681	6.1
	1974	285,944	-25,631	43,899	-69,530	6.5
	1975	171,171	-78,676	36,097	-114,773	4.7
	1976	130,967	-8,239	31,965	-40,204	4.1
	1977	133,215	35,316	33,068	2,248	4.0
	1978	146,323	46,039	32,931	13,108	4.4
	1979	135,502	22,677	33,498	-10,821	4.0
	1980	96,133	-12,949	26,420	-39,369	3.6
	1981	78,265	4,119	21,987	-17,868	3.6
	1982	82,150	21,576	17,691	3,885	4.6
	1983	63,149	-5,242	13,759	-19,001	4.6
	1984	59,228	7,620	11,541	-3,921	5.1
Total (1963-1984)		0	-414,352	1,033,310	-1,447,662	.0
Percent Change		-96.1	0	-78.2	0	.0
Texas Railroad District No. 9						
	1963	730,680	0	50,049	0	14.6
	1964	856,565	176,470	50,585	125,885	16.9
	1965	842,926	44,562	58,201	-13,639	14.5
	1966	769,617	-9,290	64,019	-73,309	12.0
	1967	772,830	63,740	60,527	3,213	12.8
	1968	731,594	18,640	59,876	-41,236	12.2
	1969	672,513	923	60,004	-59,081	11.2
	1970	609,226	652	63,939	-63,287	9.5
	1971	577,872	30,556	61,910	-31,354	9.3
	1972	524,353	3,808	57,327	-53,519	9.1
	1973	474,048	303	50,608	-50,305	9.4
	1974	383,584	-42,073	48,391	-90,464	7.9
	1975	367,565	31,066	47,085	-16,019	7.8
	1976	328,703	4,263	43,125	-38,862	7.6
	1977	292,597	490	36,596	-36,106	8.0
	1978	258,859	-437	33,301	-33,738	7.8
	1979	276,694	52,342	34,507	17,835	8.0
	1980	286,510	50,076	40,260	9,816	7.1

Note: Footnotes appear at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 8. Dedicated Gas Reserves, Changes in Gas Reserves, Production and R/P Ratios, by State, 1963-1984 (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

State	Year	Year-End Reserves	Revisions and Additions Gain or Loss	Annual Production	Net Change in Reserves Gain or Loss	R/P[1] Ratio
Texas Railroad District No. 9						
	1981	280,476	37,849	43,883	-6,034	6.4
	1982	244,544	12,774	48,706	-35,932	5.0
	1983	241,344	41,999	45,199	-3,200	5.3
	1984	231,054	36,975	47,265	-10,290	4.9
Total (1963-1984)		0	555,688	1,055,314	-499,626	.0
Percent Change		-68.4	0	-5.6	0	.0
Texas Railroad District No. 10						
	1963	13,365,699	0	775,047	0	17.2
	1964	12,823,979	272,898	814,618	-541,720	15.7
	1965	11,871,595	-134,289	818,095	-952,384	14.5
	1966	11,501,379	478,756	848,972	-370,216	13.5
	1967	10,960,394	326,537	867,522	-540,985	12.6
	1968	10,699,578	563,932	824,748	-260,816	13.0
	1969	10,483,715	613,104	828,967	-215,863	12.6
	1970	9,639,025	57,251	901,941	-844,690	10.7
	1971	8,839,048	100,981	900,958	-799,977	9.8
	1972	8,101,237	191,027	928,838	-737,811	8.7
	1973	7,307,506	153,244	946,975	-793,731	7.7
	1974	6,805,151	436,466	938,821	-502,355	7.2
	1975	6,104,396	172,023	872,778	-700,755	7.0
	1976	5,456,164	149,091	797,323	-648,232	6.8
	1977	5,019,649	322,805	759,320	-436,515	6.6
	1978	5,189,211	829,516	659,954	169,562	7.9
	1979	4,860,965	332,109	660,355	-328,246	7.4
	1980	4,446,590	214,785	629,160	-414,375	7.1
	1981	5,068,667	1,280,275	658,198	622,077	7.7
	1982	3,843,035	-721,936	503,696	-1,225,632	7.6
	1983	3,622,812	176,213	396,436	-220,223	9.1
	1984	3,304,859	70,932	388,885	-317,953	8.5
Total (1963-1984)		0	5,885,720	15,946,560	-10,060,840	.0
Percent Change		-75.3	0	-49.8	0	.0
Texas Offshore						
	1969	100,572	100,982	410	100,572	245.3
	1970	95,139	2,840	8,273	-5,433	11.5
	1971	252,911	171,120	13,348	157,772	18.9
	1972	345,840	118,835	25,906	92,929	13.3
	1973	392,138	100,098	53,800	46,298	7.3
	1974	316,801	-2,284	73,053	-75,337	4.3
	1975	227,072	-36,571	53,158	-89,729	4.3
	1976	193,770	13,832	47,134	-33,302	4.1
	1977	668,207	541,390	66,953	474,437	10.0
	1978	1,992,224	1,540,041	216,024	1,324,017	9.2
	1979	2,940,962	1,493,745	545,007	948,738	5.4
	1980	3,011,980	712,788	641,770	71,018	4.7
	1981	3,779,497	1,495,999	728,482	767,517	5.2
	1982	4,060,989	1,163,191	881,699	281,492	4.6
	1983	4,188,650	988,421	860,760	127,661	4.9
	1984	3,987,448	716,458	917,660	-201,202	4.3
Total (1963-1984)		0	9,120,885	5,133,437	3,987,448	.0
Percent Change		3,864.8	0	223,719.5	0	.0
Utah						
	1963	321,082	0	40,161	0	8.0
	1964	344,280	54,802	31,604	23,198	10.9
	1965	378,386	65,596	31,490	34,106	12.0
	1966	385,028	39,585	32,943	6,642	11.7
	1967	348,855	-9,714	26,459	-36,173	13.2

Note: Footnotes appear at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 8. Dedicated Gas Reserves, Changes in Gas Reserves, Production and R/P Ratios, by State, 1963-1984 (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

State	Year	Year-End Reserves	Revisions and Additions Gain or Loss	Annual Production	Net Change in Reserves Gain or Loss	R/P* Ratio
Utah						
	1968	332,613	8,201	24,443	-16,242	13.6
	1969	260,830	-50,962	20,821	-71,783	12.5
	1970	251,661	15,981	25,150	-9,169	10.0
	1971	264,659	34,744	21,746	12,998	12.2
	1972	296,473	53,382	21,568	31,814	13.7
	1973	307,805	35,602	24,270	11,332	12.7
	1974	306,853	27,592	28,544	-952	10.8
	1975	304,929	28,251	30,175	-1,924	10.1
	1976	252,143	-26,245	26,541	-52,786	9.5
	1977	290,901	71,160	32,402	38,758	9.0
	1978	382,198	129,505	38,208	91,297	10.0
	1979	533,170	192,491	41,519	150,972	12.8
	1980	716,243	233,063	49,990	183,073	14.3
	1981	858,299	205,593	63,537	142,056	13.5
	1982	1,001,035	213,591	70,855	142,736	14.1
	1983	932,750	-15,120	53,165	-68,285	17.5
	1984	870,143	-9,854	52,753	-62,607	16.5
Total (1963-1984)		0	1,297,244	748,183	549,061	.0
Percent Change		171.0	0	31.4	0	.0
Virginia						
	1963	10,818	0	1,439	0	7.5
	1964	11,995	2,450	1,273	1,177	9.4
	1965	17,300	8,826	3,521	5,305	4.9
	1966	16,135	2,540	3,705	-1,165	4.4
	1967	17,491	4,519	3,163	1,356	5.5
	1968	21,102	6,418	2,807	3,611	7.5
	1969	19,552	811	2,361	-1,550	8.3
	1970	28,088	10,914	2,378	8,536	11.8
	1971	30,893	4,972	2,167	2,805	14.3
	1972	38,633	10,158	2,418	7,740	16.0
	1973	41,858	7,916	4,691	3,225	8.9
	1974	38,523	3,388	6,723	-3,335	5.7
	1975	41,014	8,897	6,406	2,491	6.4
	1976	40,993	6,667	6,688	-21	6.1
	1977	44,791	9,310	5,512	3,798	8.1
	1978	91,654	55,405	8,542	46,863	10.7
	1979	107,257	24,190	8,587	15,603	12.5
	1980	108,025	8,586	7,818	768	13.8
	1981	117,658	18,530	8,897	9,633	13.2
	1982	121,518	10,765	6,905	3,860	17.6
	1983	117,841	646	4,323	-3,677	27.3
	1984	112,864	3,999	8,976	-4,977	12.6
Total (1963-1984)		0	209,907	107,861	102,046	.0
Percent Change		943.3	0	523.8	0	.0
Washington						
	1983	10,585	10,585	0	10,585	.0
	1984	12,527	1,942	0	1,942	.0
Total (1963-1984)		0	12,527	0	12,527	.0
Percent Change		.0	0	.0	0	.0
West Virginia						
	1963	1,904,102	0	163,564	0	11.6
	1964	1,982,145	251,011	172,968	78,043	11.5
	1965	1,937,033	130,640	175,752	-45,112	11.0
	1966	1,985,145	223,450	175,338	48,112	11.3
	1967	1,925,401	119,518	179,262	-59,744	10.7
	1968	1,907,235	180,680	198,846	-18,166	9.6

Note: Footnotes appear at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 8. Dedicated Gas Reserves, Changes in Gas Reserves, Production and R/P Ratios, by State, 1963-1984 (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

State	Year	Year-End Reserves	Revisions and Additions Gain or Loss	Annual Production	Net Change in Reserves Gain or Loss	R/P* Ratio
West Virginia						
	1969	1,844,741	126,882	189,376	-62,494	9.7
	1970	1,789,459	152,723	208,005	-55,282	8.6
	1971	1,749,714	161,223	200,968	-39,745	8.7
	1972	1,687,882	112,811	174,643	-61,832	9.7
	1973	1,644,881	107,560	150,561	-43,001	10.9
	1974	1,487,428	-11,810	145,843	-157,453	10.2
	1975	1,423,334	67,054	131,148	-64,094	10.9
	1976	1,478,789	187,832	132,377	55,455	11.2
	1977	1,459,026	110,649	130,412	-19,763	11.2
	1978	1,516,740	191,699	133,985	57,714	11.3
	1979	1,554,046	168,227	130,921	37,306	11.9
	1980	1,614,177	203,193	143,062	60,131	11.3
	1981	1,560,665	103,251	156,763	-53,512	10.0
	1982	1,549,207	136,055	147,513	-11,458	10.5
	1983	1,579,758	159,408	128,857	30,551	12.3
	1984	1,507,008	77,003	149,753	-72,750	10.1
Total (1963-1984)		0	2,959,259	3,356,353	-397,094	.0
Percent Change		-20.9	0	-8.4	0	.0
Wyoming						
	1963	4,191,587	0	154,532	0	27.1
	1964	4,315,618	311,227	187,196	124,031	23.1
	1965	4,398,703	270,816	187,731	83,085	23.4
	1966	4,496,114	282,733	185,322	97,411	24.3
	1967	4,473,545	162,245	184,814	-22,569	24.2
	1968	4,472,316	192,804	194,033	-1,229	23.0
	1969	4,471,936	213,841	214,221	-380	20.9
	1970	4,634,994	395,954	232,896	163,058	19.9
	1971	4,629,489	251,914	257,419	-5,505	18.0
	1972	4,419,235	59,588	269,842	-210,254	16.4
	1973	4,111,514	-42,233	265,488	-307,721	15.5
	1974	4,255,010	388,385	244,889	143,496	17.4
	1975	4,483,502	460,356	231,864	228,492	19.3
	1976	4,393,582	138,626	228,546	-89,920	19.2
	1977	4,332,088	185,664	247,158	-61,494	17.5
	1978	4,311,824	224,757	245,021	-20,264	17.6
	1979	4,964,675	952,176	299,325	652,851	16.6
	1980	5,421,861	777,667	320,481	457,186	16.9
	1981	6,104,153	1,026,511	344,219	682,292	17.7
	1982	6,293,437	526,918	337,634	189,284	18.6
	1983	6,064,062	123,296	352,671	-229,375	17.2
	1984	5,725,977	34,981	373,066	-338,085	15.3
Total (1963-1984)		0	6,938,226	5,403,836	1,534,390	.0
Percent Change		36.6	0	141.4	0	.0
Undifferentiated[e]						
	1963	2,327,067	0	175,815	0	13.2
	1964	2,682,769	565,836	210,134	355,702	12.8
	1965	2,448,355	-31,324	203,090	-234,414	12.1
	1966	2,484,792	240,387	203,950	36,437	12.2
	1967	2,398,272	133,215	219,735	-86,520	10.9
	1968	2,594,910	429,336	232,698	196,538	11.2
	1969	2,563,191	203,250	234,969	-31,719	10.9
	1970	1,673,519	-760,356	109,316	-889,672	15.3
	1971	1,733,454	364,621	304,686	59,935	5.7
	1972	248,619	-1,418,034	66,801	-1,484,835	3.7
	1973	60,246	-94,033	94,340	-188,373	.6
	1974	82,049	134,340	112,537	21,803	.7
	1975	62,636	15,060	34,473	-19,413	1.8
	1976	68,387	32,214	26,463	5,751	2.6
	1977	29,897	7,886	46,376	-38,490	.6

Note: Footnotes appear at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 8. Dedicated Gas Reserves, Changes in Gas Reserves, Production and R/P Ratios, by State, 1963-1984 (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

State	Year	Year-End Reserves	Revisions and Additions Gain or Loss	Annual Production	Net Change in Reserves Gain or Loss	R/P[a] Ratio
Undifferentiated[b]						
	1978	27,123	17,094	19,868	-2,774	1.4
	1981	1,667,849	1,640,726	0	1,640,726	.0
	1982	1,588,515	-79,334	0	-79,334	.0
	1983	1,386,099	-202,416	0	-202,416	.0
	1984	1,411,243	25,144	0	25,144	.0
Total (1963-1984)		0	1,203,612	2,119,436	-915,824	.0
Percent Change		-39.4	0	-100.0	0	.0
Total All Companies						
	1963	188,540,057	0	9,350,628	0	20.2
	1964	189,165,424	10,639,942	10,014,575	625,367	18.9
	1965	192,076,788	13,282,139	10,370,775	2,911,364	18.5
	1966	195,130,322	14,190,100	11,136,566	3,053,534	17.5
	1967	198,061,163	14,750,852	11,820,011	2,930,841	16.8
	1968	194,962,033	9,452,967	12,552,097	-3,099,130	15.5
	1969	187,609,270	6,080,625	13,433,388	-7,352,763	14.0
	1970	173,555,745	38,258	14,091,783	-14,053,525	12.3
	1971	161,341,388	1,990,733	14,205,090	-12,214,357	11.4
	1972	146,905,647	-228,804	14,206,937	-14,435,741	10.3
	1973	134,317,273	1,092,009	13,680,383	-12,588,374	9.8
	1974	120,542,602	-809,621	12,965,050	-13,774,671	9.3
	1975	106,816,456	-1,734,398	11,991,748	-13,726,146	8.9
	1976	98,282,085	2,854,237	11,388,608	-8,534,371	8.6
	1977	92,888,736	5,527,300	10,920,649	-5,393,349	8.5
	1978	93,993,187	11,969,929	10,865,478	1,104,451	8.7
	1979	97,299,098	14,841,878	11,535,967	3,305,911	8.4
	1980	97,102,021	11,407,195	11,604,272	-197,077	8.4
	1981	98,339,488	13,196,777	11,959,310	1,237,467	8.2
	1982	98,710,561	11,304,485	10,933,412	371,073	9.0
	1983	94,497,523	5,283,864	9,496,902	-4,213,038	10.0
	1984	89,893,676	5,617,778	10,421,625	-4,603,847	8.6
Total (1963-1984)		0	150,948,245	249,594,626	-98,646,381	.0
Percent Change		-52.3	0	11.5	0	.0

[a] R/P equals Reserves to Production.

[b] Reserves and Production which are not separable by FERC Production Areas or by States. Includes undesignated underground storage beginning in 1981.

Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Domestic Natural Gas Supplies of Major Jurisdictional Companies

Sixty-eight respondents, consisting of 25 major[2] and 43 minor companies from the universe of 89 respondents, reported owned or contracted domestic natural gas reserves and production for 1984. The remaining 21 respondents reporting on Form 15 purchased their entire gas supply from another respondent or foreign supplier or purchased supplemental supplies including coal gas, LNG, and SNG (Table 13). Such supplies are not included in the domestic natural gas total.

The 25 major companies collectively accounted for 96.8 percent (87.0 trillion cubic feet (Tcf)) of the total domestic natural gas reserves and 96.8 percent (10.1 Tcf) of the total production reported by interstate pipeline companies for 1984. The balance of domestic natural gas reserves and production, 2.9 and 0.3 Tcf respectively, was reported by the 43 minor companies (Table 9).

There are 25 major companies. Annual production and purchases for the major companies has remained relatively constant since the inception of data collection; however, statistics reveal a declining trend in reserves from 194.1 Tcf in 1967 to 87.0 Tcf in 1984 (Table 10).

The ratio of gross change in reserves to production for the 25 major companies in 1984 was 0.57 compared to .55 in 1983. A ratio less than 1 indicates a decrease in year-end reserves from the preceding year (Table 11 and Figure 3).

[2]Major companies are those having over 900 billion cubic feet of domestic in-the-ground reserves at the inception of the Form 15 report or date of first filing of the form. Some of the major companies no longer have domestic in-the-ground reserves of over 900 billion cubic feet, but are still classified as such to preserve continuity of data.

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Table 9. Domestic Gas Reserves, Production, and Purchases of Pipeline Companies Reported on Form 15, Year-End 1984

(Billion Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Item	Major Companies[a]	Minor Companies	Total
Number of Companies	25	43	68
Reserves Dedicated as of December 31,1984 :			
Pipeline-owned Reserves	8,960	574	9,534
Reserves Dedicated Under Independent Producer Contracts	77,628	2,252	79,880
Other Supply Contracts[b]	392	88	480
Total	86,979	2,914	89,894
Percent of Total Dedicated Reserves	96.8	3.2	100.0
Production From Dedicated Reserves During 1984 :			
Pipeline-owned	326	33	359
Dedicated Under Independent Producer Contracts	9,665	270	9,935
Other Supply Contracts[b]	93	35	128
Total	10,084	338	10,422
Percent of Total Production	96.8	3.2	100.0

[a] Major companies are those having over 900 billion cubic feet of domestic in-the-ground reserves at the inception of the Form 15 report or date of first filing of the form. Some of the major companies no longer have domestic in-the-ground reserves of over 900 billion cubic feet but are still classified as such to preserve continuity of data.

[b] Includes intrastate supplies pursuant to Section 311(b) and 312 of the NGPA of 1978.

Note: Totals may not equal sum of components due to independent rounding.

Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 10. Domestic Reserves, Production, and Purchases of Major Gas Supply Companies[a], 1963-1984

(Trillion Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Year	Number of Companies	Annual Production and Purchases	Year-End Gas Reserves
1963	24	9.0	184.6
1964	24	9.7	185.0
1965	23	10.0	187.6
1966	24	10.8	190.0
1967	24	11.5	194.1
1968	24	12.2	191.3
1969	24	13.1	184.2
1970	25	13.8	170.1
1971	25	13.9	158.1
1972	25	13.9	144.2
1973	25	13.4	131.9
1974	26	12.7	118.3
1975	26	11.7	104.7
1976	26	11.1	96.4
1977	26	10.7	91.1
1978	26	10.7	92.2
1979	26	11.3	95.1
1980	26	11.4	95.2
1981	25	11.6	95.2
1982	25	10.6	95.5
1983	25	9.2	91.4
1984	25	10.1	87.0

[a] Major companies are those having over 900 billion cubic feet of domestic in-the-ground reserves at the inception of the Form 15 report or date of first filing of the form. Some of the major companies no longer have domestic in-the-ground reserves of over 900 billion cubic feet, but are still classified as such to preserve continuity of data.

Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 11. Gross Change in Reserves, Production, and Gross Change-Production (GC/P) Ratios

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Major Gas Company	Annual Gross Change in Reserves[a] Year-End Increase or Decrease							
	Year-End 1979	1980	1981	1982	1983	1984	Year-End 1984	Total Change 12-31-79 to 12-31-84
ANR Pipeline Co								
Reserves	3,971,593	371,579	322,561	333,608	1,645	80,713	2,474,452	1,110,106
Annual Production	648,058	561,469	547,945	536,362	462,068	499,403	499,403	2,607,247
GC/P Ratio	--	.66	.59	.62	.00	.16	--	.43
Arkla Inc								
Reserves	4,224,976	407,162	433,365	305,766	259,870	126,546	4,265,082	1,532,709
Annual Production	330,048	322,358	329,162	300,006	265,367	275,710	275,710	1,492,603
GC/P Ratio	--	1.26	1.32	1.02	.98	.46	--	1.03
Colorado Interstate Gas Co								
Reserves	3,751,328	432,538	23,126	82,195	91,592	16,859	2,962,574	646,310
Annual Production	389,173	368,070	301,351	299,345	226,479	239,819	239,819	1,435,064
GC/P Ratio	--	1.18	.08	.27	.40	.07	--	.45
Columbia Gas Transmission Corp								
Reserves	3,552,681	788,453	1,860,297	770,442	367,065	379,695	4,709,817	4,165,952
Annual Production	591,051	595,814	666,178	605,053	537,377	604,394	604,394	3,008,816
GC/P Ratio	--	1.32	2.79	1.27	.68	.63	--	1.38
Consolidated Gas Transmission Corp								
Reserves	1,306,395	259,859	557,125	121,115	-25,584	112,607	1,546,351	1,025,142
Annual Production	145,306	150,450	163,574	165,108	142,502	163,552	163,552	785,186
GC/P Ratio	--	1.73	3.41	.73	-.18	.69	--	1.31
El Paso Natural Gas Co								
Reserves	16,339,783	955,926	1,514,529	1,260,192	264,031	410,932	15,329,214	4,405,610
Annual Production	1,139,705	1,154,190	1,263,018	1,072,459	941,037	985,475	985,475	5,416,179
GC/P Ratio	--	.83	1.20	1.18	.28	.42	--	.81
Florida Gas Transmission Co								
Reserves	582,982	149,209	247,648	230,837	401,526	201,143	933,566	1,230,363
Annual Production	135,700	152,781	157,012	138,327	187,951	243,708	243,708	879,779
GC/P Ratio	--	.98	1.58	1.67	2.14	.83	--	1.40
K N Energy Inc								
Reserves	1,608,360	71,874	-4,434	55,076	-1,552	69,002	1,338,601	189,966
Annual Production	114,952	109,440	93,726	87,955	78,258	90,346	90,346	459,725
GC/P Ratio	--	.66	-.05	.63	-.02	.76	--	.41
Montana-Dakota Utilities Co								
Reserves	789,645	227,272	137,277	117,372	-8,291	3,144	933,673	476,774
Annual Production	54,545	65,826	70,192	76,924	76,139	43,665	43,665	332,746
GC/P Ratio	--	3.45	1.96	1.53	-.11	.07	--	1.43
Natural Gas Pipeline Co of America								
Reserves	6,407,445	975,444	865,476	515,418	5,751	743,842	5,132,067	3,105,931
Annual Production	949,177	878,633	875,374	894,427	802,973	929,903	929,903	4,381,310
GC/P Ratio	--	1.11	.99	.58	.01	.80	--	.71
Northern Natural Div InterNorth Inc								
Reserves	7,184,279	753,533	574,657	782,305	342,087	256,908	6,451,237	2,709,490
Annual Production	787,438	787,781	791,890	681,432	573,368	608,061	608,061	3,442,532
GC/P Ratio	--	.96	.73	1.15	.60	.42	--	.79
Northwest Central Pipeline Corp								
Reserves	4,712,616	454,749	437,807	600,572	98,036	164,012	5,214,675	1,755,176
Annual Production	358,780	311,298	293,518	218,239	194,211	235,851	235,851	1,253,117
GC/P Ratio	--	1.46	1.49	2.75	.50	.70	--	1.40
Northwest Pipeline Corp								
Reserves	4,623,261	174,469	297,155	136,386	191,688	312,477	4,905,504	1,112,175

Note: Footnotes appear at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 11. Gross Change in Reserves, Production, and Gross Change-Production (GC/P) Ratios (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Major Gas Company	Annual Gross Change in Reserves* Year-End Increase or Decrease							
	Year-End 1979	1980	1981	1982	1983	1984	Year-End 1984	Total Change 12-31-79 to 12-31-84
Northwest Pipeline Corp								
Annual Production	162,153	162,061	167,140	169,701	159,060	171,970	171,970	829,932
GC/P Ratio	--	1.08	1.78	.80	1.21	1.82	--	1.34
Panhandle Eastern Pipe Line Co								
Reserves	4,333,479	481,618	460,589	621,344	137,989	98,630	4,007,311	1,800,170
Annual Production	493,644	497,010	521,098	432,010	320,451	355,769	355,769	2,126,338
GC/P Ratio	--	.97	.88	1.44	.43	.28	--	.85
Sea Robin Pipeline Co								
Reserves	736,076	136,561	219,833	125,872	60,762	109 469	432,006	652,497
Annual Production	239,967	262,788	237,871	189,458	129,290	137,160	137,160	956,567
GC/P Ratio	--	.52	.92	.66	.47	.80	--	.68
Southern Natural Gas Co								
Reserves	2,321,766	637,825	546,285	286,924	337,448	95,273	2,030,234	1,903,755
Annual Production	417,368	454,526	458,579	434,577	417,741	429,864	429,864	2,195,287
GC/P Ratio	--	1.40	1.19	.66	.81	.22	--	.87
Tennessee Gas Pipeline Div Tenneco								
Reserves	8,555,093	560,574	889,719	1,092,022	285,048	314,812	6,698,981	3,142,175
Annual Production	1,047,034	921,460	1,095,485	1,046,658	871,218	1,063,466	1,063,466	4,998,287
GC/P Ratio	--	.61	.81	1.04	.33	.30	--	.63
Texas Eastern Transmission Corp								
Reserves	3,271,920	180,813	414,849	1,012,187	680,061	1,030,806	3,757,447	3,318,716
Annual Production	621,491	563,973	505,112	473,193	584,324	706,587	706,587	2,833,189
GC/P Ratio	--	.32	.82	2.14	1.16	1.46	--	1.17
Texas Gas Transmission Corp								
Reserves	2,604,508	725,941	210,350	86,300	106,017	483,316	2,306,440	1,611,924
Annual Production	405,410	403,425	400,712	381,576	356,302	367,977	367,977	1,909,992
GC/P Ratio	--	1.80	.52	.23	.30	1.31	--	.84
Transcontinental Gas Pipe Line Corp								
Reserves	5,911,500	888,879	950,492	1,156,164	539,776	402,082	5,537,290	3,937,393
Annual Production	656,287	862,760	901,262	858,271	856,752	832,558	832,558	4,311,603
GC/P Ratio	--	1.03	1.05	1.35	.63	.48	--	.91
Transwestern Pipeline Co								
Reserves	1,536,432	332,771	346,258	242,246	373,444	206,570	1,571,225	1,501,289
Annual Production	295,062	317,384	308,788	293,037	288,509	258,778	258,778	1,466,496
GC/P Ratio	--	1.05	1.12	.83	1.29	.80	--	1.02
Trunkline Gas Co								
Reserves	2,474,129	524,043	468,920	-54,230	315,190	-83,011	1,592,674	1,170,912
Annual Production	508,115	497,055	535,174	522,717	216,965	280,456	280,456	2,052,367
GC/P Ratio	--	1.05	.88	-.10	1.45	-.30	--	.57
United Gas Pipe Line Co								
Reserves	3,167,112	606,241	921,335	959,019	236,984	165,611	2,680,556	2,889,190
Annual Production	677,279	809,047	880,597	691,416	464,140	530,546	530,546	3,375,746
GC/P Ratio	--	.75	1.05	1.39	.51	.31	--	.86
Valero Interstate Transmission Co								
Reserves	151,189	-20,378	2,352	72,880	9,099	2,378	106,285	66,331
Annual Production	24,628	22,521	21,190	24,635	21,693	21,196	21,196	111,235
GC/P Ratio	--	-.90	.11	2.96	.42	.11	--	.60
West Texas Gathering Co								
Reserves	151,185	-5,235	-1,388	6,781	-1,649	254	61,973	-1,237
Annual Production	40,100	33,252	24,414	14,375	8,289	7,645	7,645	87,975
GC/P Ratio	--	-.16	-.06	.47	-.20	.03	--	-.01

Note: Footnotes appear at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 11. Gross Change in Reserves, Production, and Gross Change-Production (GC/P) Ratios (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Major Gas Company	Annual Gross Change in Reserves* Year-End Increase or Decrease							
	Year-End 1979	1980	1981	1982	1983	1984	Year-End 1984	Total Change 12-31-79 to 12-31-84
Total								
Reserves	94,269,734	11,071,720	12,696,183	10,918,793	5,068,053	5,704,070	86,979,235	45,458,819
Annual Production	11,232,471	11,265,372	11,610,362	10,607,261	9,182,464	10,083,859	10,083,859	52,749,318
GC/P Ratio	—	.98	1.09	1.03	.55	.57	—	.86

* Gross change in reserves is the net change in reserves plus annual production. Interstate pipeline purchases, pipeline imports, coal gasification, liquefied natural gas and synthetic natural gas are excluded.

Note: GC/P equals Ratio of gross change to production.

Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Total Gas Supplies of the Jurisdictional Interstate Pipeline Companies

The total gas supplies of interstate pipeline companies consist of the dedicated, salable natural gas available from company-owned in-the-ground reserves, including gas in underground storage, reserves dedicated to or warranted under contracts with independent producers, gas purchased under contracts with other interstate pipeline companies, intrastate supplies contracted pursuant to Section 311(b) and 312 of the Natural Gas Policy Act of 1978, domestically produced coal gas, LNG, SNG, and imported natural gas and LNG.

The total gas supplies of each interstate pipeline company controlling a share of the dedicated domestic reserves are shown in detail in Table 12. Table 13 provides an account of the gas supplies of interstate pipeline companies who purchased their entire gas supply from another respondent, foreign supplier, or other source constituting supplies not considered to be domestic in-the-ground reserves. Presentation of the data in two tables clearly distinguishes those companies who report gas supplies considered to be additive to domestic in-the-ground reserves from those who report gas which is not.

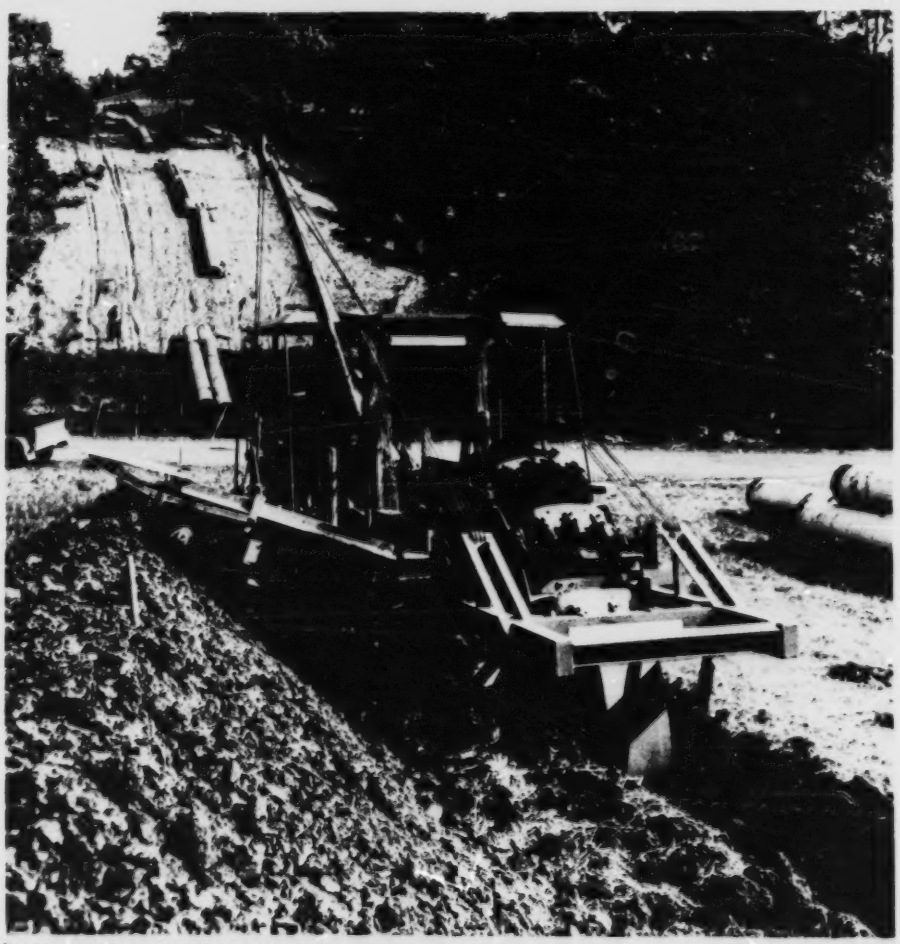

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Table 12. Total Gas Supplies of Interstate Pipeline Companies with Owned and Contracted Gas Reserves

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Company Name and Gas Supply Source	Produced and/or Purchased		Remaining Gas Supply	
	Volume 1984	Percent Company Total	Volume 1984	Percent Company Total
Major Gas Supply Companies				
ANR Pipeline Co				
Gas Reserves				
Company Owned	0	0.00	149,219	2.52
Producer Contracts	499,403	80.35	2,325,233	39.20
Subtotal	499,403	80.35	2,474,452	41.72
Domestic Gas Supply				
Interstate Pipeline Purchases				
Great Lakes Gas Transmission Co	3,031	.49	139,160	2.35
Midwestern Gas Transmission Co	43,298	6.97	1,978,300	33.35
Northern Natural Div InterNorth Inc	19,923	3.21	377,485	6.36
Texas Gas Transmission Corp	14,000	2.25	250,436	4.22
Coal Gasification Purchases				
Great Plains Gasification[a]	1,835	.30	285,156	4.81
Subtotal	82,087	13.21	3,030,537	51.10
Import Gas Supply				
Pipeline Purchases				
Progas Ltd[a]	22,680	3.65	61,100	1.03
Trans-Canada Pipeline Ltd[a]	17,385	2.80	365,000	6.15
Subtotal	40,065	6.45	426,100	7.18
Company Total Gas Supply	621,555	100.00	5,931,089	100.00
Arkla Inc				
Gas Reserves				
Company Owned	11,588	3.93	396,883	8.41
Producer Contracts	262,201	88.84	3,819,656	80.57
Subtotal	273,789	92.77	4,218,539	88.98
Domestic Gas Supply				
Interstate Pipeline Purchases				
Louisiana-Nevada Transit Co	746	.25	19,805	.42
Mississippi River Transmission Corp	2,932	.99	68,360	1.44
Natural Gas Pipeline Co of America	4	.00	99	.00
Northwest Central Pipeline Corp	193	.07	4,169	.09
Tennessee Gas Pipeline Div Tenneco	67	.02	1,331	.03
Texas Eastern Transmission Corp	419	.14	8,970	.19
Texas Gas Transmission Corp	8,474	2.87	188,340	3.97
United Gas Pipe Line Co	6,597	2.24	184,637	3.89
Intrastate Pipeline Purchases				
Oneok Inc[a]	813	.28	21,703	.46
Valero Transmission Co[a]	1,108	.38	24,840	.52
Subtotal	21,353	7.23	522,254	11.02
Company Total Gas Supply	295,142	100.00	4,740,793	100.00
Colorado Interstate Gas Co				
Gas Reserves				
Company Owned	57,938	22.25	649,943	21.02
Producer Contracts	181,881	69.84	2,312,631	74.78
Subtotal	239,819	92.09	2,962,574	95.80

Note: Footnote appears at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 12. Total Gas Supplies of Interstate Pipeline Companies with Owned and Contracted Gas Reserves (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Company Name and Gas Supply Source	Produced and/or Purchased		Remaining Gas Supply	
	Volume 1984	Percent Company Total	Volume 1984	Percent Company Total
Major Gas Supply Companies				
Colorado Interstate Gas Co				
Domestic Gas Supply				
Interstate Pipeline Purchases				
Montana-Dakota Utilities Co	2,242	0.86	31,229	1.01
MIGC Inc	8,281	3.18	39,472	1.28
Northwest Pipeline Corp	9,946	3.82	57,934	1.87
Western Transmission Corp	136	.05	1,363	.04
Subtotal	20,605	7.91	129,998	4.20
Company Total Gas Supply	260,424	100.00	3,092,572	100.00
Columbia Gas Transmission Corp				
Gas Reserves				
Company Owned	40,820	5.68	1,052,610	6.82
Producer Contracts	563,574	78.37	3,657,207	23.68
Subtotal	604,394	84.05	4,709,817	30.49
Domestic Gas Supply				
Interstate Pipeline Purchases				
Kentucky West Va Gas Co	618	.09	103,252	.67
Panhandle Eastern Pipe Line Co	9,371	1.30	1,830,659	11.85
Tennessee Gas Pipeline Div Tenneco	43,600	6.06	4,083,805	26.44
Texas Eastern Transmission Corp	44,537	6.19	2,474,381	16.02
Texas Gas Transmission Corp	10,810	1.50	1,703,139	11.03
Transcontinental Gas Pipe Line Corp	5,783	.80	537,199	3.48
Subtotal	114,719	15.95	10,732,435	69.49
Other Gas Supply				
LPG Air Production[a]	0	.00	2,780	.02
Company Total Gas Supply	719,113	100.00	15,445,032	100.00
Consolidated Gas Transmission Corp				
Gas Reserves				
Company Owned	25,232	4.25	625,762	5.77
Producer Contracts	138,320	23.29	920,589	8.49
Subtotal	163,552	27.54	1,546,351	14.26
Domestic Gas Supply				
Interstate Pipeline Purchases				
Tennessee Gas Pipeline Div Tenneco	152,156	25.62	3,360,660	30.98
Texas Eastern Transmission Corp	194,128	32.39	4,132,555	38.10
Texas Gas Transmission Corp	83,999	14.15	1,796,685	16.57
Transcontinental Gas Pipe Line Corp	0	.00	10,000	.09
Subtotal	430,283	72.46	9,299,900	85.74
Company Total Gas Supply	593,835	100.00	10,846,251	100.00
El Paso Natural Gas Co				
Gas Reserves				
Company Owned	105,514	10.50	2,880,336	18.64

Note: Footnote appears at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 12. Total Gas Supplies of Interstate Pipeline Companies with Owned and Contracted Gas Reserves (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Company Name and Gas Supply Source	Produced and/or Purchased		Remaining Gas Supply	
	Volume 1984	Percent Company Total	Volume 1984	Percent Company Total
Major Gas Supply Companies				
El Paso Natural Gas Co				
Gas Reserves				
Producer Contracts	879,961	87.60	12,448,878	80.55
Subtotal	985,475	98.10	15,329,214	99.19
Domestic Gas Supply				
Interstate Pipeline Purchases				
Border Gas Inc	9,139	.91	82,125	.53
Southwest Gas Corp	2,524	.25	5,776	.04
West Texas Gathering Co	7,373	.73	37,668	.24
Subtotal	19,036	1.90	125,569	.81
Company Total Gas Supply	1,004,511	100.00	15,454,783	100.00
Florida Gas Transmission Co				
Gas Reserves				
Producer Contracts	196,542	79.64	879,230	81.99
Domestic Gas Supply				
Interstate Pipeline Purchases				
Border Gas Inc	1,717	.70	46,635	4.35
Southern Natural Gas Co	1,368	.55	88,250	8.23
Intrastate Pipeline Purchases				
Producers Gas Co[a]	47,166	19.11	54,336	5.07
Synthetic Natural Gas Purchases				
Waste Management Inc[a]	0	.00	3,898	.36
Subtotal	50,251	20.36	193,119	18.01
Company Total Gas Supply	246,793	100.00	1,072,349	100.00
K N Energy Inc				
Gas Reserves				
Company Owned	20,245	20.98	92,170	6.60
Producer Contracts	70,101	72.64	1,246,431	89.19
Subtotal	90,346	93.62	1,338,601	95.79
Domestic Gas Supply				
Interstate Pipeline Purchases				
Colorado Interstate Gas Co	157	.16	4,196	.30
Northern Natural Div InterNorth Inc	2,786	2.89	19,242	1.38
Panhandle Eastern Pipe Line Co	3,213	3.33	35,434	2.54
Subtotal	6,156	6.38	58,872	4.21
Company Total Gas Supply	96,502	100.00	1,397,473	100.00
Montana-Dakota Utilities Co				
Gas Reserves				
Company Owned	732	1.68	346,954	37.16
Producer Contracts	42,933	98.32	586,719	62.84

Note: Footnote appears at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 12. Total Gas Supplies of Interstate Pipeline Companies with Owned and Contracted Gas Reserves (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Company Name and Gas Supply Source	Produced and/or Purchased		Remaining Gas Supply	
	Volume 1984	Percent Company Total	Volume 1984	Percent Company Total
Major Gas Supply Companies				
Montana-Dakota Utilities Co				
Company Total Gas Supply	43,665	100.00	933,673	100.00
Natural Gas Pipeline Co of America				
Gas Reserves				
Company Owned	23,604	2.40	457,828	6.99
Producer Contracts	904,357	91.85	4,597,998	70.19
Subtotal	927,961	94.25	5,055,826	77.18
Domestic Gas Supply				
Interstate Pipeline Purchases				
Cimarron Transmission Co	3,602	.37	28,469	.43
Colorado Interstate Gas Co	30,399	3.09	725,262	11.07
Great Lakes Gas Transmission Co	16,298	1.66	327,702	5.00
Valero Interstate Transmission Co	99	.01	494	.01
Intrastate Pipeline Purchases				
Delhi Gas Pipeline Corp[a]	1,519	.15	0	.00
Mid Con Ventures[a]	312	.03	0	.00
Mv Pipeline Company[a]	111	.01	16,070	.25
ONG Western Inc[a]	0	.00	60,171	.92
Coal Gasification Purchases				
Great Plains Gasification[a]	1,469	.15	226,656	3.46
Subtotal	53,809	5.47	1,384,824	21.14
Import Gas Supply				
Pipeline Purchases				
Progas Limited[a]	2,162	.22	102,320	1.56
Other Gas Supply				
Getty Synthetic Fuel[a]	653	.07	7,556	.12
Company Total Gas Supply	984,585	100.00	6,550,526	100.00
Northern Natural Div InterNorth Inc				
Gas Reserves				
Company Owned	12,642	1.89	203,720	3.05
Producer Contracts	593,355	88.55	6,238,816	93.27
Subtotal	605,997	90.43	6,442,536	96.31
Domestic Gas Supply				
Interstate Pipeline Purchases				
Northwest Alaskan Pipeline Co	32,180	4.80	182,702	2.73
Intrastate Pipeline Purchases				
Getty Oil Co[a]	2,064	.31	8,701	.13
Subtotal	34,244	5.11	191,403	2.86
Import Gas Supply				
Pipeline Purchases				
Trans-Canada Pipeline Ltd[a]	29,854	4.46	55,385	.83
Company Total Gas Supply	670,095	100.00	6,689,324	100.00

Note: Footnote appears at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 12. Total Gas Supplies of Interstate Pipeline Companies with Owned and Contracted Gas Reserves (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Company Name and Gas Supply Source	Produced and/or Purchased		Remaining Gas Supply	
	Volume 1984	Percent Company Total	Volume 1984	Percent Company Total
Major Gas Supply Companies				
Northwest Central Pipeline Corp				
Gas Reserves				
Company Owned	0	0.00	141,835	2.46
Producer Contracts	235,851	77.96	5,072,840	87.99
Subtotal	235,851	77.96	5,214,675	90.45
Domestic Gas Supply				
Interstate Pipeline Purchases				
Arkla Inc	29,352	9.70	126,708	2.20
Ringwood Gathering Co	6,422	2.12	32,759	.57
Transwestern Pipeline Co	30,900	10.21	391,214	6.79
Subtotal	66,674	22.04	550,681	9.55
Company Total Gas Supply	302,525	100.00	5,765,356	100.00
Northwest Pipeline Corp				
Gas Reserves				
Company Owned	23,034	8.12	1,002,904	15.66
Producer Contracts	148,936	52.53	3,902,600	60.95
Subtotal	171,970	60.65	4,905,504	76.61
Import Gas Supply				
Pipeline Purchases				
Westcoast Transmission Co[a]	111,569	39.35	1,497,566	23.39
Company Total Gas Supply	283,539	100.00	6,403,070	100.00
Panhandle Eastern Pipe Line Co				
Gas Reserves				
Company Owned	0	.00	122,733	1.96
Producer Contracts	355,769	75.25	3,884,578	61.92
Subtotal	355,769	75.25	4,007,311	63.88
Domestic Gas Supply				
Interstate Pipeline Purchases				
Colorado Interstate Gas Co	1	.00	40	.00
K N Energy Inc	3,395	.72	38,338	.61
Northwest Alaskan Pipeline Co	23,181	4.90	182,625	2.91
Trunkline Gas Co	90,023	19.04	2,043,226	32.57
Western Gas Interstate Co	14	.00	148	.00
Zenith Natural Gas Co	421	.09	1,360	.02
Subtotal	117,035	24.75	2,265,737	36.12
Company Total Gas Supply	472,804	100.00	6,273,048	100.00
Sea Robin Pipeline Co				
Gas Reserves				
Producer Contracts	137,160	100.00	432,006	100.00
Company Total Gas Supply	137,160	100.00	432,006	100.00

Note: Footnote appears at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 12. Total Gas Supplies of Interstate Pipeline Companies with Owned and Contracted Gas Reserves (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Company Name and Gas Supply Source	Produced and/or Purchased		Remaining Gas Supply	
	Volume 1984	Percent Company Total	Volume 1984	Percent Company Total
Major Gas Supply Companies				
Southern Natural Gas Co				
Gas Reserves				
Company Owned	0	0.00	135,898	4.53
Producer Contracts	429,864	84.76	1,894,336	63.08
Subtotal	429,864	84.76	2,030,234	67.60
Domestic Gas Supply				
Interstate Pipeline Purchases				
Border Gas Inc	3,442	.68	58,400	1.94
Sea Robin Pipeline Co	73,778	14.55	135,501	4.51
United Gas Pipe Line Co	44	.01	778,966	25.94
Subtotal	77,264	15.24	972,867	32.40
Company Total Gas Supply	507,128	100.00	3,003,101	100.00
Tennessee Gas Pipeline Div Tenneco				
Gas Reserves				
Company Owned	3,492	.32	208,667	2.73
Producer Contracts	1,056,639	96.34	6,490,314	85.03
Subtotal	1,060,131	96.65	6,698,981	87.76
Domestic Gas Supply				
Interstate Pipeline Purchases				
Border Gas Inc	19,313	1.76	533,814	6.99
Valley Gas Transmission Inc	1,119	.10	1,298	.02
Intrastate Pipeline Purchases				
Northern States Power Co[a]	3,335	.30	0	.00
Coal Gasification Purchases				
Great Plains Gasification[a]	614	.06	321,686	4.21
Subtotal	24,381	2.22	856,798	11.22
Import Gas Supply				
Pipeline Purchases				
Progas Ltd[a]	12,311	1.12	77,550	1.02
Company Total Gas Supply	1,096,823	100.00	7,633,329	100.00
Texas Eastern Transmission Corp				
Gas Reserves				
Company Owned	1,001	.10	149,957	1.65
Producer Contracts	699,726	68.74	3,606,154	39.75
Subtotal	700,727	68.84	3,756,111	41.40
Domestic Gas Supply				
Interstate Pipeline Purchases				
Border Gas Inc	9,448	.93	150,565	1.66
Southern Natural Gas Co	4,377	.43	251,850	2.78
Texas Gas Transmission Corp	110,227	10.83	1,819,540	20.05
United Gas Pipe Line Co	170,233	16.72	3,015,980	33.24
Intrastate Pipeline Purchases				
Grace Petroleum Corp[a]	1,726	.17	1,336	.01
Gulf South Pipeline Co[a]	4,134	.41	0	.00

Note: Footnote appears at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 12. Total Gas Supplies of Interstate Pipeline Companies with Owned and Contracted Gas Reserves (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Company Name and Gas Supply Source	Produced and/or Purchased		Remaining Gas Supply	
	Volume 1984	Percent Company Total	Volume 1984	Percent Company Total
Major Gas Supply Companies				
Texas Eastern Transmission Corp				
Domestic Gas Supply				
Subtotal	300,145	29.48	5,239,271	57.75
Import Gas Supply				
Pipeline Purchases				
Progas Ltd[a]	17,094	1.68	77,550	.85
Company Total Gas Supply	1,017,966	100.00	9,072,932	100.00
Texas Gas Transmission Corp				
Gas Reserves				
Company Owned	36	.01	121,917	2.53
Producer Contracts	358,275	62.79	2,184,523	45.37
Subtotal	358,311	62.80	2,306,440	47.90
Domestic Gas Supply				
Interstate Pipeline Purchases				
Consolidated Gas Transmission Corp	23,799	4.17	2,342	.05
Tennessee Gas Pipeline Div Tenneco	40,465	7.09	132,716	2.76
Texas Eastern Transmission Corp	73,644	12.91	870,280	18.07
United Gas Pipe Line Co	64,707	11.34	1,503,466	31.22
Intrastate Pipeline Purchases				
Michigan Consolidated Gas[a]	5,543	.97	0	.00
Oklahoma Natural Gas Inc[a]	4,123	.72	0	.00
Subtotal	212,281	37.20	2,508,804	52.10
Company Total Gas Supply	570,592	100.00	4,815,244	100.00
Transcontinental Gas Pipe Line Corp				
Gas Reserves				
Company Owned	0	.00	76,856	1.31
Producer Contracts	832,558	96.67	5,460,434	93.10
Subtotal	832,558	96.67	5,537,290	94.41
Domestic Gas Supply				
Interstate Pipeline Purchases				
Border Gas Inc	5,150	.60	68,784	1.17
Texas Gas Pipe Line Corp[a]	986	.11	6,100	.10
Subtotal	6,136	.71	74,884	1.28
Import Gas Supply				
Pipeline Purchases				
Sulpetro Ltd[a]	18,835	2.19	157,644	2.69
Union Gas Ltd Of Chatham[a]	3,683	.43	95,043	1.62
Subtotal	22,518	2.61	252,687	4.31
Company Total Gas Supply	861,212	100.00	5,864,861	100.00

Note: Footnote appears at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 12. Total Gas Supplies of Interstate Pipeline Companies with Owned and Contracted Gas Reserves (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Company Name and Gas Supply Source	Produced and/or Purchased		Remaining Gas Supply	
	Volume 1984	Percent Company Total	Volume 1984	Percent Company Total
Major Gas Supply Companies				
Transwestern Pipeline Co				
Gas Reserves				
Producer Contracts	255,979	97.15	1,549,325	98.61
Domestic Gas Supply				
Interstate Pipeline Purchases				
Border Gas Inc	4,721	1.79	0	.00
Intrastate Pipeline Purchases				
Delhi Gas Pipeline Corp*	0	.00	5,475	.35
Houston Pipe Line Co*	1,858	.71	5,475	.35
Llano Inc*	0	.00	10,950	.70
Oklahoma Natural Gas Inc*	583	.22	0	.00
United Texas Transmission*	99	.04	0	.00
Westar Transmission Co*	259	.10	0	.00
Subtotal	7,520	2.85	21,900	1.39
Company Total Gas Supply	263,499	100.00	1,571,225	100.00
Trunkline Gas Co				
Gas Reserves				
Company Owned	0	.00	26,931	.57
Producer Contracts	280,456	98.80	1,565,743	32.86
Subtotal	280,456	98.80	1,592,674	33.43
Import Gas Supply				
Liquefied Natural Gas Purchases				
Trunkline LNG Company*	3,406	1.20	3,171,534	66.57
Company Total Gas Supply	283,862	100.00	4,764,208	100.00
United Gas Pipe Line Co				
Gas Reserves				
Company Owned	0	.00	114,884	2.97
Producer Contracts	512,058	76.50	2,383,072	61.64
Subtotal	512,058	76.50	2,497,956	64.61
Domestic Gas Supply				
Interstate Pipeline Purchases				
Sea Robin Pipeline Co	79,743	11.91	216,003	5.59
Northern Border Pipeline	59,055	8.82	969,618	25.08
Intrastate Pipeline Purchases				
Public Serv Co Of Okla*	18,488	2.76	182,600	4.72
Subtotal	157,286	23.50	1,368,221	35.39
Company Total Gas Supply	669,344	100.00	3,866,177	100.00
Valero Interstate Transmission Co				
Gas Reserves				
Producer Contracts	21,196	100.00	106,285	100.00

Note: Footnote appears at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 12. Total Gas Supplies of Interstate Pipeline Companies with Owned and Contracted Gas Reserves (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Company Name and Gas Supply Source	Produced and/or Purchased		Remaining Gas Supply	
	Volume 1984	Percent Company Total	Volume 1984	Percent Company Total
Major Gas Supply Companies				
Valero Interstate Transmission Co				
Company Total Gas Supply	21,196	100.00	106,285	100.00
West Texas Gathering Co				
Gas Reserves				
Producer Contracts	7,645	100.00	61,973	100.00
Company Total Gas Supply	7,645	100.00	61,973	100.00
Minor Gas Supply Companies				
Alabama-Tennessee Natural Gas Co				
Gas Reserves				
Producer Contracts	1,152	3.49	9,248	5.34
Domestic Gas Supply				
Interstate Pipeline Purchases				
Tennessee Gas Pipeline Div Tenneco	31,851	96.51	163,982	94.66
Company Total Gas Supply	33,003	100.00	173,230	100.00
Arkansas Oklahoma Gas Corp				
Gas Reserves				
Producer Contracts	994	73.30	19,433	100.00
Domestic Gas Supply				
Interstate Pipeline Purchases				
Mississippi River Transmission Corp	362	26.70	0	.00
Company Total Gas Supply	1,356	100.00	19,433	100.00
Bayou Interstate Pipeline System				
Gas Reserves				
Producer Contracts	5,696	100.00	2,527	100.00
Company Total Gas Supply	5,696	100.00	2,527	100.00
Blacksville Oil & Gas Co				
Gas Reserves				
Producer Contracts	8	42.11	54	15.25

Note: Footnote appears at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 12. Total Gas Supplies of Interstate Pipeline Companies with Owned and Contracted Gas Reserves (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Company Name and Gas Supply Source	Produced and/or Purchased		Remaining Gas Supply	
	Volume 1984	Percent Company Total	Volume 1984	Percent Company Total
Minor Gas Supply Companies				
Blacksville Oil & Gas Co				
Domestic Gas Supply				
Interstate Pipeline Purchases				
Columbia Gas Transmission Corp	11	57.89	300	84.75
Company Total Gas Supply	19	100.00	354	100.00
Caprock Pipeline Co				
Gas Reserves				
Producer Contracts	4,918	100.00	21,219	100.00
Company Total Gas Supply	4,918	100.00	21,219	100.00
Carnegie Natural Gas Co				
Gas Reserves				
Company Owned	1,749	10.03	39,970	7.93
Producer Contracts	3,844	22.05	32,083	6.37
Subtotal	5,593	32.09	72,053	14.30
Domestic Gas Supply				
Interstate Pipeline Purchases				
Texas Eastern Transmission Corp	11,838	67.91	431,880	85.70
Company Total Gas Supply	17,431	100.00	503,933	100.00
Cimarron Transmission Co				
Gas Reserves				
Producer Contracts	3,602	100.00	28,469	100.00
Company Total Gas Supply	3,602	100.00	28,469	100.00
Crown Zellerbach Corp				
Gas Reserves				
Producer Contracts	625	100.00	2,133	100.00
Company Total Gas Supply	625	100.00	2,133	100.00
East Tennessee Natural Gas Co				
Gas Reserves				
Producer Contracts	751	1.03	2,724	.59

Note: Footnote appears at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 12. Total Gas Supplies of Interstate Pipeline Companies with Owned and Contracted Gas Reserves (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Company Name and Gas Supply Source	Produced and/or Purchased		Remaining Gas Supply	
	Volume 1984	Percent Company Total	Volume 1984	Percent Company Total
Minor Gas Supply Companies				
East Tennessee Natural Gas Co				
Domestic Gas Supply				
Interstate Pipeline Purchases				
Tennessee Gas Pipeline Div Tenneco	71,970	98.97	455,681	99.41
Company Total Gas Supply	72,721	100.00	458,405	100.00
Eastern Shore Natural Gas Co				
Gas Reserves				
Producer Contracts	6,810	50.41	0	.00
Domestic Gas Supply				
Interstate Pipeline Purchases				
Transcontinental Gas Pipe Line Corp	6,700	49.59	166,055	100.00
Company Total Gas Supply	13,510	100.00	166,055	100.00
Equitable Gas Co				
Gas Reserves				
Company Owned	3,118	4.57	77,038	5.74
Producer Contracts	10,535	15.44	143,999	10.73
Subtotal	13,653	20.01	221,037	16.47
Domestic Gas Supply				
Interstate Pipeline Purchases				
Kentucky West Va Gas Co	14,131	20.71	174,418	13.00
Tennessee Gas Pipeline Div Tenneco	15,269	22.38	248,528	18.52
Texas Eastern Transmission Corp	25,175	36.90	698,015	52.01
Subtotal	54,575	79.99	1,120,961	83.53
Company Total Gas Supply	68,228	100.00	1,341,998	100.00
Gas Transport Inc				
Gas Reserves				
Producer Contracts	1,521	50.48	15,210	32.89
Domestic Gas Supply				
Interstate Pipeline Purchases				
Columbia Gas Transmission Corp	1,492	49.52	31,030	67.11
Company Total Gas Supply	3,013	100.00	46,240	100.00

Note: Footnote appears at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 12. Total Gas Supplies of Interstate Pipeline Companies with Owned and Contracted Gas Reserves (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Company Name and Gas Supply Source	Produced and/or Purchased		Remaining Gas Supply	
	Volume 1984	Percent Company Total	Volume 1984	Percent Company Total
Minor Gas Supply Companies				
Georgia-Pacific Corp				
Gas Reserves				
Company Owned	31	1.23	1,109	68.54
Producer Contracts	2,498	98.77	509	31.46
Company Total Gas Supply	2,529	100.00	1,618	100.00
Inland Gas Co Inc				
Gas Reserves				
Company Owned	1,510	17.00	19,398	11.14
Producer Contracts	62	.70	1,291	.74
Subtotal	1,572	17.70	20,689	11.88
Domestic Gas Supply				
Interstate Pipeline Purchases				
Tennessee Gas Pipeline Div Tenneco	7,308	82.30	153,435	88.12
Company Total Gas Supply	8,880	100.00	174,124	100.00
International Paper Co				
Gas Reserves				
Producer Contracts	2,787	100.00	21,631	100.00
Company Total Gas Supply	2,787	100.00	21,631	100.00
Kentucky West Va Gas Co				
Gas Reserves				
Company Owned	8,862	38.94	86,606	35.14
Producer Contracts	13,898	61.06	159,839	64.86
Company Total Gas Supply	22,760	100.00	246,445	100.00
Locust Ridge Gas Co				
Gas Reserves				
Producer Contracts	1,169	100.00	5,898	100.00
Company Total Gas Supply	1,169	100.00	5,898	100.00
Lone Star Gas Co Div Enserch Corp				
Gas Reserves				
Company Owned	0	.00	8,193	4.72

Note: Footnote appears at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 12. Total Gas Supplies of Interstate Pipeline Companies with Owned and Contracted Gas Reserves (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Company Name and Gas Supply Source	Produced and/or Purchased		Remaining Gas Supply	
	Volume 1984	Percent Company Total	Volume 1984	Percent Company Total
Minor Gas Supply Companies				
Lone Star Gas Co Div Enserch Corp				
Gas Reserves				
Producer Contracts	26,509	96.67	161,789	93.19
Subtotal	26,509	96.67	169,982	97.91
Domestic Gas Supply				
Intrastate Pipeline Purchases				
Psco[a]	914	3.33	3,630	2.09
Company Total Gas Supply	27,423	100.00	173,612	100.00
Louisiana-Nevada Transit Co				
Gas Reserves				
Producer Contracts	4,142	100.00	61,951	100.00
Company Total Gas Supply	4,142	100.00	61,951	100.00
Michigan Gas Storage Co				
Gas Reserves				
Company Owned	0	.00	19,770	4.06
Domestic Gas Supply				
Interstate Pipeline Purchases				
Panhandle Eastern Pipe Line Co	61,019	100.00	467,140	95.94
Company Total Gas Supply	61,019	100.00	486,910	100.00
Mid Louisiana Gas Co				
Gas Reserves				
Company Owned	10,009	36.61	79,009	34.58
Producer Contracts	16,804	61.46	141,295	61.85
Subtotal	26,813	98.07	220,304	96.43
Domestic Gas Supply				
Interstate Pipeline Purchases				
Locust Ridge Gas Co	225	.82	1,357	.59
Intrastate Pipeline Purchases				
Oklahoma Natural Gas Inc[a]	302	1.10	6,805	2.98
Subtotal	527	1.93	8,162	3.57
Company Total Gas Supply	27,340	100.00	228,466	100.00
Midwestern Gas Transmission Co				
Gas Reserves				
Company Owned	0	.00	3,127	.08

Note: Footnote appears at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 12. Total Gas Supplies of Interstate Pipeline Companies with Owned and Contracted Gas Reserves (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Company Name and Gas Supply Source	Produced and/or Purchased		Remaining Gas Supply	
	Volume 1984	Percent Company Total	Volume 1984	Percent Company Total
Minor Gas Supply Companies				
Midwestern Gas Transmission Co				
Domestic Gas Supply				
Interstate Pipeline Purchases				
Great Lakes Gas Transmission Co	0	0.00	9,384	0.24
Tennessee Gas Pipeline Div Tenneco	189,329	77.06	3,474,912	90.26
Subtotal	189,329	77.06	3,484,296	90.53
Import Gas Supply				
Pipeline Purchases				
Trans-Canada Pipeline Ltd[a]	55,722	22.68	360,090	9.36
Other Gas Supply				
Equit Life Assn Society[a]	650	.26	1,320	.03
Company Total Gas Supply	245,701	100.00	3,848,833	100.00
MIGC Inc				
Gas Reserves				
Producer Contracts	8,858	100.00	73,429	100.00
Company Total Gas Supply	8,858	100.00	73,429	100.00
Mississippi River Transmission Corp				
Gas Reserves				
Company Owned	779	.47	60,056	6.66
Producer Contracts	21,921	13.28	122,766	13.61
Subtotal	22,700	13.75	182,822	20.27
Domestic Gas Supply				
Interstate Pipeline Purchases				
Natural Gas Pipeline Co of America	29,192	17.68	130,477	14.47
Trunkline Gas Co	1,995	1.21	0	.00
United Gas Pipe Line Co	87,851	53.22	585,047	64.88
Intrastate Pipeline Purchases				
Delhi Pipeline Co[a]	12,194	7.39	1,265	.14
East Texas Industrial[a]	602	.36	14	.00
Pgc Pipeline[a]	7,457	4.52	1,047	.12
Producers Gas Co[a]	3,090	1.87	1,109	.12
Subtotal	142,381	86.25	718,959	79.73
Company Total Gas Supply	165,081	100.00	901,781	100.00
Mountain Fuel Resources Inc				
Gas Reserves				
Company Owned	121	.13	15,438	2.02

Note: Footnote appears at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 12. Total Gas Supplies of Interstate Pipeline Companies with Owned and Contracted Gas Reserves (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Company Name and Gas Supply Source	Produced and/or Purchased		Remaining Gas Supply	
	Volume 1984	Percent Company Total	Volume 1984	Percent Company Total
Minor Gas Supply Companies				
Mountain Fuel Resources Inc				
Gas Reserves				
Producer Contracts	68,836	72.29	542,639	70.98
Subtotal	68,957	72.42	558,077	73.00
Domestic Gas Supply				
Interstate Pipeline Purchases				
Colorado Interstate Gas Co	6,352	6.67	4,222	.55
Northwest Pipeline Corp	10,781	11.32	132,975	17.39
Intrastate Pipeline Purchases				
Amoco Production*	1,311	1.38	2,019	.26
Gary Operating Co*	3,125	3.28	12,440	1.63
Koch Exploration Co*	627	.66	10,143	1.33
Mesa Pipeline Co*	2,813	2.95	28,404	3.72
Shell Oil Co*	1,015	1.07	14,783	1.93
Uinta Pipeline Co*	240	.25	1,427	.19
Subtotal	26,264	27.58	206,413	27.00
Company Total Gas Supply	95,221	100.00	764,490	100.00
National Fuel Gas Supply Corp				
Gas Reserves				
Company Owned	6,085	3.34	111,966	5.07
Producer Contracts	16,658	9.13	201,633	9.13
Subtotal	22,743	12.46	313,599	14.20
Domestic Gas Supply				
Interstate Pipeline Purchases				
Columbia Gas Transmission Corp	2	.00	79,747	3.61
Consolidated Gas Transmission Corp	31,380	17.20	56,928	2.58
Tennessee Gas Pipeline Div Tenneco	95,539	52.36	1,692,896	76.66
Texas Eastern Transmission Corp	28,427	15.58	28,134	1.27
Transcontinental Gas Pipe Line Corp	4,365	2.39	37,116	1.68
Subtotal	159,713	87.54	1,894,821	85.80
Company Total Gas Supply	182,456	100.00	2,208,420	100.00
North Penn Gas Co				
Gas Reserves				
Company Owned	0	.00	13,334	3.69
Domestic Gas Supply				
Interstate Pipeline Purchases				
Consolidated Gas Transmission Corp	3,464	20.55	4,745	1.31
Tennessee Gas Pipeline Div Tenneco	10,606	62.92	328,722	91.00
Transcontinental Gas Pipe Line Corp	2,787	16.53	14,428	3.99
Subtotal	16,857	100.00	347,895	96.31
Company Total Gas Supply	16,857	100.00	361,229	100.00

Note: Footnote appears at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 12. Total Gas Supplies of Interstate Pipeline Companies with Owned and Contracted Gas Reserves (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Company Name and Gas Supply Source	Produced and/or Purchased		Remaining Gas Supply	
	Volume 1984	Percent Company Total	Volume 1984	Percent Company Total
Minor Gas Supply Companies				
Orange & Rockland Utilities Inc				
Gas Reserves				
Company Owned	0	0.00	15,370	3.40
Domestic Gas Supply				
Interstate Pipeline Purchases				
Algonquin Gas Transmission Co	11,298	23.83	2,015	.45
Columbia Gas Transmission Corp	10,222	21.56	110,834	24.52
National Fuel Gas Supply Corp	2,131	4.49	0	.00
Tennessee Gas Pipeline Div Tenneco	21,715	45.80	316,703	70.06
Texas Eastern Transmission Corp	1,912	4.03	7,147	1.58
Synthetic Natural Gas Purchases				
Columbia Gas Transmission Corp[a]	139	.29	0	.00
Subtotal	47,417	100.00	436,699	96.60
Company Total Gas Supply	47,417	100.00	452,069	100.00
Pacific Gas Transmission Co				
Gas Reserves				
Company Owned	705	.30	14,754	.97
Producer Contracts	2,173	.92	60,867	4.00
Subtotal	2,878	1.22	75,621	4.97
Import Gas Supply				
Pipeline Purchases				
Alberta & Southern Gas Co[a]	232,282	98.78	1,446,500	95.03
Company Total Gas Supply	235,160	100.00	1,522,121	100.00
Pacific Interstate Offshore Co				
Gas Reserves				
Producer Contracts	0	.00	168,108	100.00
Company Total Gas Supply	0	100.00	168,108	100.00
Pacific Interstate Transmission Co				
Gas Reserves				
Producer Contracts	299	.66	727	.16
Domestic Gas Supply				
Interstate Pipeline Purchases				
Northwest Alaskan Pipeline Co	45,318	99.34	461,084	99.84
Company Total Gas Supply	45,617	100.00	461,811	100.00

Note: Footnote appears at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 12. Total Gas Supplies of Interstate Pipeline Companies with Owned and Contracted Gas Reserves (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Company Name and Gas Supply Source	Produced and/or Purchased		Remaining Gas Supply	
	Volume 1984	Percent Company Total	Volume 1984	Percent Company Total
Minor Gas Supply Companies				
Pacific Offshore Pipeline Co				
Gas Reserves				
Producer Contracts	0	0.00	160,000	100.00
Company Total Gas Supply	0	100.00	160,000	100.00
Pennsylvania & Southern Gas Co				
Gas Reserves				
Company Owned	0	.00	572	1.31
Producer Contracts	0	.00	56	.13
Subtotal	0	.00	628	1.44
Domestic Gas Supply				
Interstate Pipeline Purchases				
Eastern Shore Natural Gas Co	327	5.81	2,805	6.43
Tennessee Gas Pipeline Div Tenneco	2,958	52.56	18,208	41.71
Transcontinental Gas Pipe Line Corp	2,343	41.63	22,008	50.42
Subtotal	5,628	100.00	43,021	98.56
Company Total Gas Supply	5,628	100.00	43,649	100.00
Ringwood Gathering Co				
Gas Reserves				
Producer Contracts	7,419	100.00	43,801	100.00
Company Total Gas Supply	7,419	100.00	43,801	100.00
Texas Gas Pipeline Corp				
Gas Reserves				
Producer Contracts	1,708	100.00	7,980	100.00
Company Total Gas Supply	1,708	100.00	7,980	100.00
Union Gas System Inc				
Gas Reserves				
Company Owned	0	.00	4,236	6.66
Domestic Gas Supply				
Interstate Pipeline Purchases				
Northwest Central Pipeline Corp	11,689	91.95	54,209	85.29
Intrastate Pipeline Purchases				
Ajax Oil & Gas[e]	20	.16	100	.16
Kansas Gas Co[e]	754	5.93	3,770	5.93
Oklahoma Natural Gas Inc[e]	249	1.96	1,245	1.96

Note: Footnote appears at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 12. Total Gas Supplies of Interstate Pipeline Companies with Owned and Contracted Gas Reserves (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Company Name and Gas Supply Source	Produced and/or Purchased		Remaining Gas Supply	
	Volume 1984	Percent Company Total	Volume 1984	Percent Company Total
Minor Gas Supply Companies				
Union Gas System Inc				
Domestic Gas Supply				
Subtotal	12,712	100.00	59,324	93.34
Company Total Gas Supply	12,712	100.00	63,560	100.00
Valley Gas Transmission Inc				
Gas Reserves				
Producer Contracts	2,459	100.00	9,333	100.00
Company Total Gas Supply	2,459	100.00	9,333	100.00
Washington Gas Light Co				
Gas Reserves				
Company Owned	0	.00	3,970	.32
Producer Contracts	26,546	23.00	0	.00
Subtotal	26,546	23.00	3,970	.32
Domestic Gas Supply				
Interstate Pipeline Purchases				
Columbia Gas Transmission Corp	60,072	52.06	1,168,741	95.43
Transcontinental Gas Pipe Line Corp	28,780	24.94	51,965	4.24
Subtotal	88,852	77.00	1,220,706	99.68
Company Total Gas Supply	115,398	100.00	1,224,676	100.00
West Texas Gas Inc				
Gas Reserves				
Producer Contracts	1,356	100.00	3,429	100.00
Company Total Gas Supply	1,356	100.00	3,429	100.00
Western Gas Interstate Co				
Gas Reserves				
Producer Contracts	2,161	81.58	11,005	24.41
Domestic Gas Supply				
Interstate Pipeline Purchases				
Colorado Interstate Gas Co	102	3.85	30,980	68.71
El Paso Natural Gas Co	386	14.57	3,100	6.88
Subtotal	488	18.42	34,080	75.59

Note: Footnote appears at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 12. Total Gas Supplies of Interstate Pipeline Companies with Owned and Contracted Gas Reserves (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Company Name and Gas Supply Source	Produced and/or Purchased		Remaining Gas Supply	
	Volume 1984	Percent Company Total	Volume 1984	Percent Company Total
Minor Gas Supply Companies				
Western Gas Interstate Co				
Company Total Gas Supply	2,649	100.00	45,085	100.00
Western Transmission Corp				
Gas Reserves				
Producer Contracts	658	100.00	2,483	100.00
Company Total Gas Supply	658	100.00	2,483	100.00
Wheeler Gas Inc				
Gas Reserves				
Producer Contracts	149	96.75	4,023	94.57
Domestic Gas Supply				
Interstate Pipeline Purchases				
Natural Gas Pipeline Co of America	5	3.25	231	5.43
Company Total Gas Supply	154	100.00	4,254	100.00
Zenith Natural Gas Co				
Gas Reserves				
Producer Contracts	558	100.00	8,743	100.00
Company Total Gas Supply	558	100.00	8,743	100.00

* Nonjurisdictional companies not required to file Form 15 reports.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 13. Total Gas Supplies of Interstate Pipeline Companies That Purchase Their Total Gas Supply from Other Pipeline Companies

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Company Name and Gas Supply Source	Produced and/or Purchased		Remaining Gas Supply	
	Volume 1984	Percent Company Total	Volume 1984	Percent Company Total
Algonquin Gas Transmission Co				
Domestic Gas Supply				
Interstate Pipeline Purchases				
Consolidated Gas Transmission Corp	2,399	1.23	153,356	16.58
National Fuel Gas Supply Corp	0	.00	46,405	5.02
Texas Eastern Transmission Corp	188,091	96.27	719,300	77.77
Synthetic Natural Gas Purchases				
Algonquin SNG Inc[a]	4,881	2.50	5,876	.64
Company Total Gas Supply	195,371	100.00	924,937	100.00
Associated Natural Gas Co				
Domestic Gas Supply				
Interstate Pipeline Purchases				
ANR Pipeline Co	1,083	8.96	12,479	32.71
Mississippi River Transmission Corp	232	1.92	3,197	8.38
Natural Gas Pipeline Co of America	757	6.27	5,668	14.85
Panhandle Eastern Pipe Line Co	454	3.76	4,128	10.82
Texas Eastern Transmission Corp	6,782	56.14	10,054	26.35
Texas Gas Transmission Corp	2,773	22.95	2,630	6.89
Company Total Gas Supply	12,081	100.00	38,156	100.00
Bluefield Gas Co				
Domestic Gas Supply				
Interstate Pipeline Purchases				
Columbia Gas Transmission Corp	1,034	100.00	9,302	100.00
Company Total Gas Supply	1,034	100.00	9,302	100.00
Border Gas Inc				
Import Gas Supply				
Pipeline Purchases				
Petroleos Mexicanos[a]	51,502	100.00	940,323	100.00
Company Total Gas Supply	51,502	100.00	940,323	100.00
Boundary Gas Inc				
Import Gas Supply				
Pipeline Purchases				
Trans-Canada Pipeline Ltd[a]	2,440	100.00	60,840	100.00

Note: Footnote appears at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 13. Total Gas Supplies of Interstate Pipeline Companies That Purchase Their Total Gas Supply from Other Pipeline Companies (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Company Name and Gas Supply Source	Produced and/or Purchased		Remaining Gas Supply	
	Volume 1984	Percent Company Total	Volume 1984	Percent Company Total
Boundary Gas Inc				
Company Total Gas Supply	2,440	100.00	60,840	100.00
Commercial Pipeline Co Inc				
Domestic Gas Supply				
Interstate Pipeline Purchases				
Northwest Central Pipeline Corp	318	100.00	1,590	100.00
Company Total Gas Supply	318	100.00	1,590	100.00
Granite State Gas Transmission Inc				
Domestic Gas Supply				
Interstate Pipeline Purchases				
Tennessee Gas Pipeline Div Tenneco	26,394	100.00	512,517	100.00
Company Total Gas Supply	26,394	100.00	512,517	100.00
Great Lakes Gas Transmission Co				
Import Gas Supply				
Pipeline Purchases				
Trans-Canada Pipeline Ltd*	43,471	100.00	778,622	100.00
Company Total Gas Supply	43,471	100.00	778,622	100.00
Great Plains Natural Gas Co				
Domestic Gas Supply				
Interstate Pipeline Purchases				
Midwestern Gas Transmission Co	0	.00	17,189	40.98
Northern Natural Div InterNorth Inc	0	.00	24,752	59.02
Company Total Gas Supply	0	100.00	41,941	100.00
Indiana Utilities Corp				
Domestic Gas Supply				
Interstate Pipeline Purchases				
Texas Gas Transmission Corp	337	100.00	2,196	100.00

Note: Footnote appears at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 13. Total Gas Supplies of Interstate Pipeline Companies That Purchase Their Total Gas Supply from Other Pipeline Companies (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Company Name and Gas Supply Source	Produced and/or Purchased		Remaining Gas Supply	
	Volume 1984	Percent Company Total	Volume 1984	Percent Company Total
Indiana Utilities Corp				
Company Total Gas Supply	337	100.00	2,196	100.00
Inter-City Minnesota Pipelines Ltd				
Import Gas Supply				
Pipeline Purchases				
ICG Transmission Ltd[a]	5,472	100.00	106,574	100.00
Company Total Gas Supply	5,472	100.00	106,574	100.00
Interstate Power Co				
Domestic Gas Supply				
Interstate Pipeline Purchases				
Natural Gas Pl Co Of Am[a]	20,288	72.74	147,898	55.57
Northern Nat Div Intern[a]	7,604	27.26	118,229	44.43
Company Total Gas Supply	27,992	100.00	266,127	100.00
Iowa Public Service Co				
Domestic Gas Supply				
Interstate Pipeline Purchases				
Northern Natural Div InterNorth Inc	36,842	100.00	448,140	100.00
Company Total Gas Supply	36,842	100.00	448,140	100.00
Iowa-Illinois Gas & Electric Co				
Domestic Gas Supply				
Interstate Pipeline Purchases				
Natural Gas Pipeline Co of America	60,690	91.21	352,508	90.44
Northern Natural Div InterNorth Inc	5,848	8.79	37,281	9.56
Company Total Gas Supply	66,538	100.00	389,789	100.00
Lawrenceburg Gas Transmission Corp				
Domestic Gas Supply				
Interstate Pipeline Purchases				
Texas Gas Transmission Corp	4,190	100.00	27,028	100.00

Note: Footnote appears at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 13. Total Gas Supplies of Interstate Pipeline Companies That Purchase Their Total Gas Supply from Other Pipeline Companies (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Company Name and Gas Supply Source	Produced and/or Purchased		Remaining Gas Supply	
	Volume 1984	Percent Company Total	Volume 1984	Percent Company Total
Lawrenceburg Gas Transmission Corp				
Company Total Gas Supply	4,190	100.00	27,028	100.00
Northwest Alaskan Pipeline Co				
Import Gas Supply				
Pipeline Purchases				
Pan-Alberta Gas Ltd*	160,667	100.00	4,491,760	100.00
Company Total Gas Supply	160,667	100.00	4,491,760	100.00
Ohio River Pipeline Corp				
Domestic Gas Supply				
Interstate Pipeline Purchases				
Texas Gas Transmission Corp	7,061	100.00	94,359	100.00
Company Total Gas Supply	7,061	100.00	94,359	100.00
Raton Natural Gas Co				
Domestic Gas Supply				
Interstate Pipeline Purchases				
Colorado Interstate Gas Co	287	100.00	7,610	100.00
Company Total Gas Supply	1,287	100.00	7,610	100.00
South Georgia Natural Gas Co				
Domestic Gas Supply				
Interstate Pipeline Purchases				
Southern Natural Gas Co	24,606	100.00	111,118	100.00
Company Total Gas Supply	24,606	100.00	111,118	100.00
South Penn Gas Co				
Domestic Gas Supply				
Interstate Pipeline Purchases				
Columbia Gas Transmission Corp	445	100.00	2,045	100.00

Note: Footnote appears at the end of the table.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply

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Table 13. Total Gas Supplies of Interstate Pipeline Companies That Purchase Their Total Gas Supply from Other Pipeline Companies (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Company Name and Gas Supply Source	Produced and/or Purchased		Remaining Gas Supply	
	Volume 1984	Percent Company Total	Volume 1984	Percent Company Total
South Penn Gas Co				
Company Total Gas Supply	445	100.00	2,045	100.00
Southwest Gas Corp				
Domestic Gas Supply				
Interstate Pipeline Purchases				
Northwest Pipeline Corp	19,237	100.00	213,607	100.00
Company Total Gas Supply	19,237	100.00	213,607	100.00

* Nonjurisdictional companies not required to file Form 15 reports.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Deliverability

All interstate pipeline companies reporting on Form 15 project the annual volumes of natural gas expected to be deliverable from each domestic certificated source for each of the 5 years following the report year. These data are filed in Schedule II. Additionally, 36 companies are required by FERC to report in Schedule I a 20-year projection of the total annual volumes of gas, including pipeline purchases and imports, deliverable from total year-end gas supplies. These deliverability forecasts are the reporting company's best year-by-year estimates of its capability to deliver present gas requirements from present gas supplies (Table 16). Future load growth and future increases in gas supply are not considered. The market requirements are only those that have been authorized at the end of the report year. Both firm and interruptible authorized gas requirements, however, are included.

A comparison of the projected volumes deliverable over the past 5 years (Table 14) shows an aggregate projection of 42.3 trillion cubic feet (Tcf) in 1980, decreasing by 0.7 percent to 42.0 Tcf in 1984. Annual deliveries for the 5-year period 1985-1989 are projected to decline from 11.4 Tcf in 1985 to 5.7 Tcf in 1989. Aggregate deliveries projected for the 5-year period are shown by State in Figure 6.

Table 15 shows 1985-1989 deliveries projected from base year 1984 year-end reserves and the percent depletion in reserves by State and sub-State area. The depletion of total year-end 1984 reserves projected by year-end 1989 is 46.7 percent.

Twenty-year deliverability summaries for the 36 companies required to file Schedule I are shown in Table 16. A progressive decline in total projected deliveries is clear in the composite of these data (Table 17). Figure 7 is a comparison of the 1963 composite 20-year deliverability forecast with the composite for 1984. Figure 8 shows reported production and a comparison of projected deliveries from year-end 1963 and 1984.

Table 14. Comparisons of Composite Five-Year Deliverability Projections From Year-End Dedicated Domestic Gas Reserves

(Billion Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Year	Annual Volumes Scheduled vs. Actual Volumes Purchased or Produced				
	1980	1981	1982	1983	1984
1980	[a] 11,604	--	--	--	--
1981	11,299	[a] 11,959	--	--	--
1982	9,666	11,938	[a] 10,933	--	--
1983	8,242	10,370	11,418	[a] 9,497	--
1984	7,050	8,601	10,080	11,399	[a] 10,422
1985	6,035	7,245	8,455	9,830	11,361
1986	--	6,161	7,248	8,233	9,897
1987	--	--	6,229	7,014	8,266
1988	--	--	--	5,935	6,780
1989	--	--	--	--	5,696
Five-Year Deliverability Projections[b]	42,292	44,315	43,430	42,411	42,000
Year-End Reserves	97,102	98,339	98,711	94,498	89,894
Five-Year Deliverablity Projections as a Percent of Year-End Reserves	43.6	45.1	44.0	44.9	46.7

[a] Actual volume purchased and/or produced for the year indicated.
[b] Sum of annual volumes scheduled.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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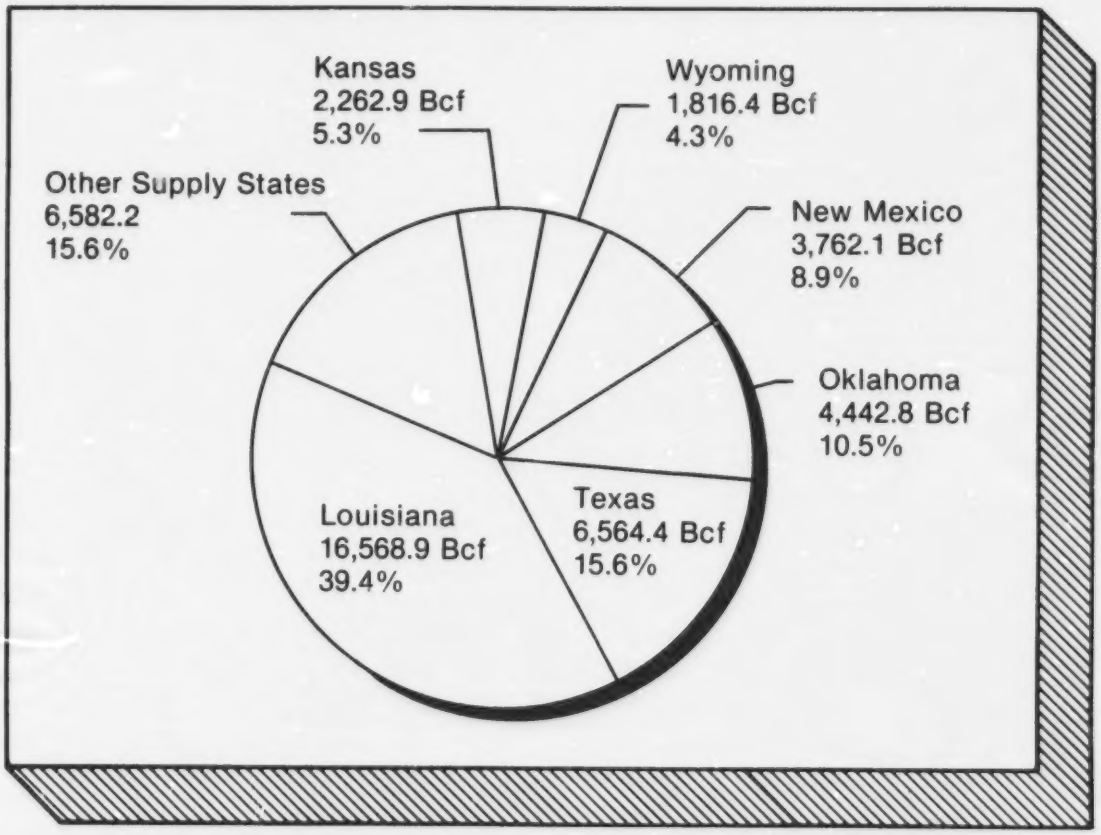
Figure 6. Five-Year Projected Deliverability by State
(Billion Cubic Feet)



Source: Energy Information Administration, Form FERC-15, "Interstate Pipeline's Annual Report of Gas Supply."

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Table 15. Five-Year (1985-1989) Composite Deliverability Projections

(Billion Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

State	Gas Reserves 12-31-84	Production 1984	Annual Deliverability Projections						Remaining Reserves 12-31-89	Percent Depletion 12-31-89
			1985	1986	1987	1988	1989	Total		
Alabama	145.7	33.7	34.6	24.1	16.9	12.0	9.6	97.3	48.4	66.8
Arkansas	1,388.5	83.5	78.4	94.6	86.4	84.3	78.6	422.3	966.2	30.4
California	328.1	.0	29.7	41.7	34.5	31.0	28.4	165.3	162.8	50.4
Colorado	1,554.2	116.3	143.6	120.7	107.3	97.3	87.8	556.7	997.5	35.8
Florida	46.5	2.9	2.5	1.5	1.2	1.1	1.1	7.3	39.2	15.7
Illinois	4.5	.2	.1	.0	.0	.0	.0	.1	4.4	2.2
Kansas	9,523.4	379.3	437.8	450.1	456.6	456.6	461.8	2,262.9	7,260.5	23.8
Kentucky	438.0	47.2	46.2	44.3	42.5	40.1	38.6	211.6	226.4	48.3
Louisiana										
Northern Louisiana	2,152.6	239.9	248.4	245.3	211.1	181.3	152.5	1,038.7	1,113.9	48.3
Southern Louisiana	22,077.9	4,322.8	4,709.6	3,843.3	3,010.9	2,265.9	1,700.3	15,530.2	6,547.7	70.3
Onshore	4,542.1	777.6	815.2	703.8	552.7	430.3	347.4	2,849.5	1,692.6	62.7
Warranty[a]	794.2	219.9	178.7	178.7	156.0	148.9	131.8	794.2	.0	100.0
Onshore Total	5,336.3	997.5	993.9	882.5	708.7	579.2	479.2	3,643.7	1,692.6	68.3
Offshore State	767.3	116.2	113.4	104.3	87.8	73.4	61.1	440.0	327.3	57.3
Offshore Federal	15,971.4	3,208.3	3,601.7	2,856.0	2,214.0	1,612.9	1,159.7	11,444.3	4,527.1	71.7
Offshore General	2.9	.8	.6	.5	.4	.4	.3	2.2	.7	75.9
Offshore Total	16,741.6	3,325.3	3,715.7	2,960.8	2,302.2	1,686.7	1,221.1	11,886.5	4,855.1	71.0
Maryland	145.5	.1	.1	.1	.1	.0	.0	.3	145.2	.2
Michigan	169.0	.0	.0	.0	.0	.0	.0	.0	169.0	.0
Minnesota	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0
Mississippi	743.7	142.5	129.9	111.5	73.4	52.1	40.9	407.7	336.0	54.8
Montana	675.1	24.4	24.4	28.4	26.1	24.6	24.0	127.4	547.7	18.9
Nebraska	91.4	3.5	2.8	2.3	2.4	2.8	2.4	12.7	78.7	13.9
New Mexico										
San Juan Basin	10,702.2	347.2	461.7	471.5	463.3	452.3	427.0	2,285.8	8,416.4	21.4
Permian Basin	3,057.2	389.0	391.6	336.6	290.0	246.0	212.1	1,476.3	1,580.9	48.3
New York	193.1	14.4	19.2	15.1	12.5	10.5	9.1	66.4	126.7	34.4
North Dakota	232.0	18.3	17.6	27.5	23.0	22.6	23.4	114.1	117.9	49.2
Ohio	401.4	53.8	61.6	46.0	36.2	29.3	23.8	197.0	204.4	49.1
Oklahoma	9,233.4	986.4	1,125.4	1,024.3	889.7	753.6	649.7	4,442.8	4,790.6	48.1
Pennsylvania	964.9	67.7	73.8	68.4	76.7	73.7	69.9	362.5	602.4	37.3
South Dakota	11.6	.8	.7	1.2	1.1	1.1	1.0	5.1	6.5	44.0
Tennessee	5.4	4.0	.7	.6	.5	.4	.4	2.5	2.9	46.3
Texas										
RR District No. 1 (North)	27.8	1.5	1.1	1.3	1.4	1.4	1.5	6.7	21.1	24.1
RR District No. 1 (South)	99.7	25.3	29.4	18.8	10.6	8.7	5.7	73.1	26.6	73.3
RR District No. 2	704.0	207.2	164.6	150.3	102.0	65.4	45.2	527.5	176.5	74.9
RR District No. 3	327.6	67.0	71.0	57.4	42.6	32.5	25.2	228.7	98.9	69.8
RR District No. 4	1,640.3	278.5	288.1	220.3	162.7	125.3	100.2	896.6	743.7	54.7
RR District No. 5	7.3	2.7	2.2	1.6	1.1	.5	.4	5.8	1.5	79.5
RR District No. 6	1,521.8	180.4	175.3	171.2	140.9	106.7	83.9	678.0	843.8	44.6
RR District No. 7B	.6	.2	.2	.1	.1	.1	.0	.6	.0	100.0
RR District No. 7C	1,084.9	129.6	121.8	112.4	102.3	90.6	80.5	507.6	577.3	46.8
RR District No. 8	2,971.9	298.1	301.2	275.2	252.5	219.7	214.5	1,263.1	1,708.8	42.5
RR District No. 8A	59.2	11.5	9.7	8.2	7.1	6.0	5.1	36.2	23.0	61.1
RR District No. 9	231.1	47.3	44.0	37.8	29.7	23.6	18.7	153.9	77.2	66.6
RR District No. 10	3,304.9	388.9	404.0	368.0	331.1	295.4	259.4	1,663.0	1,641.9	50.3
Offshore State	182.6	48.0	51.0	39.4	30.9	20.3	12.8	154.3	28.3	84.5
Offshore Federal	3,804.9	869.7	1,009.3	830.1	594.4	403.3	290.8	3,127.8	677.1	82.2
Offshore Total	3,987.5	917.7	1,060.3	869.5	625.3	423.6	303.6	3,282.1	705.4	82.3
Utah	870.1	52.8	58.8	56.3	81.6	73.3	66.9	337.0	533.1	38.7
Virginia	112.9	9.0	13.0	10.9	9.9	9.0	8.5	51.2	61.7	45.3
Washington	12.5	.0	.0	.0	.0	.0	.0	.0	12.5	.0
West Virginia	1,507.0	149.8	166.3	145.8	131.6	122.7	113.3	679.6	827.4	45.1
Wyoming	5,726.0	373.1	410.3	393.4	365.7	336.3	310.6	1,816.4	3,909.6	31.7
Undesignated[b]	1,411.2	.0	.0	.0	.0	.0	.0	.0	1,411.2	.0
Total All States	89,893.7	10,421.6	11,361.4	9,897.5	8,265.5	6,779.8	5,695.8	41,999.9	47,893.8	46.7

[a] Warranty reserves are reserves guaranteed by contract but not supported by dedication of specific approved sources of supply.
[b] Includes reserves in underground storage which were reported without a State designation.
Note: Totals may not equal sum of components due to independent rounding.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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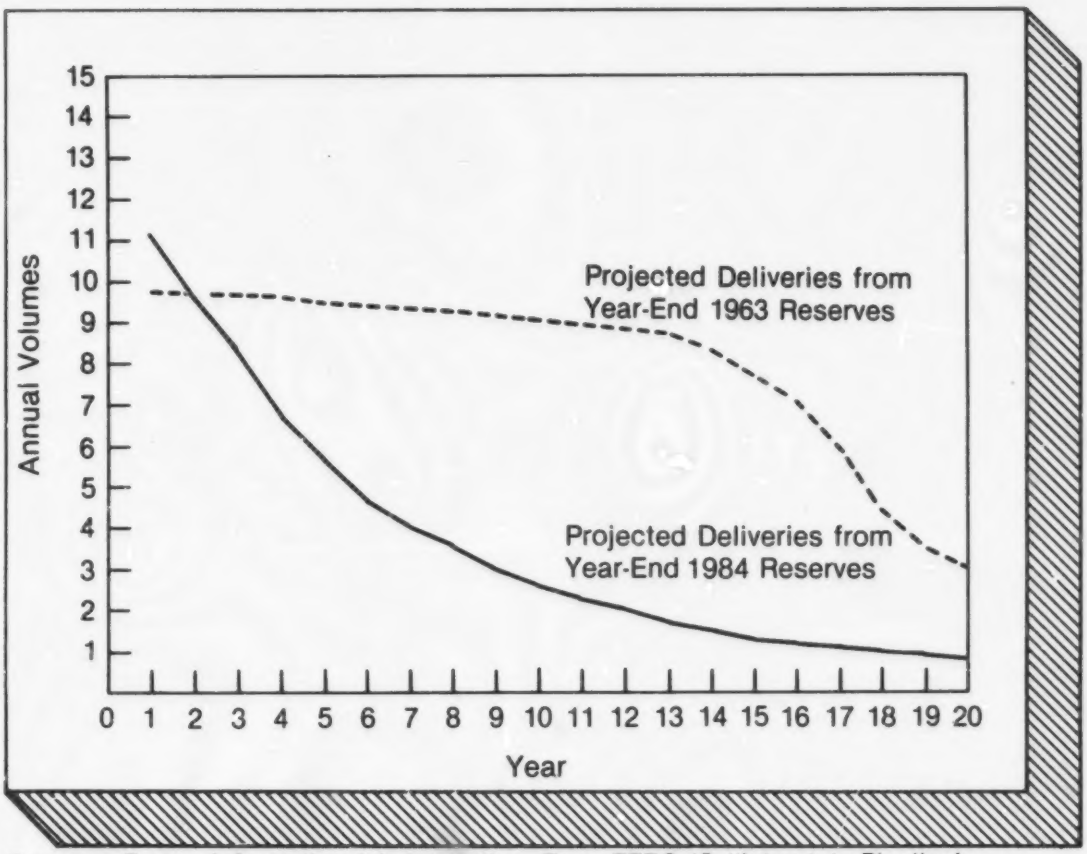
Figure 7. Superimposed 20-Year Annual Deliverability Projections from Year-End Reserves 1963 and 1984
(Trillion Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)



Source: Energy Information Administration, Form FERC-15, "Interstate Pipeline's Annual Report of Gas Supply"

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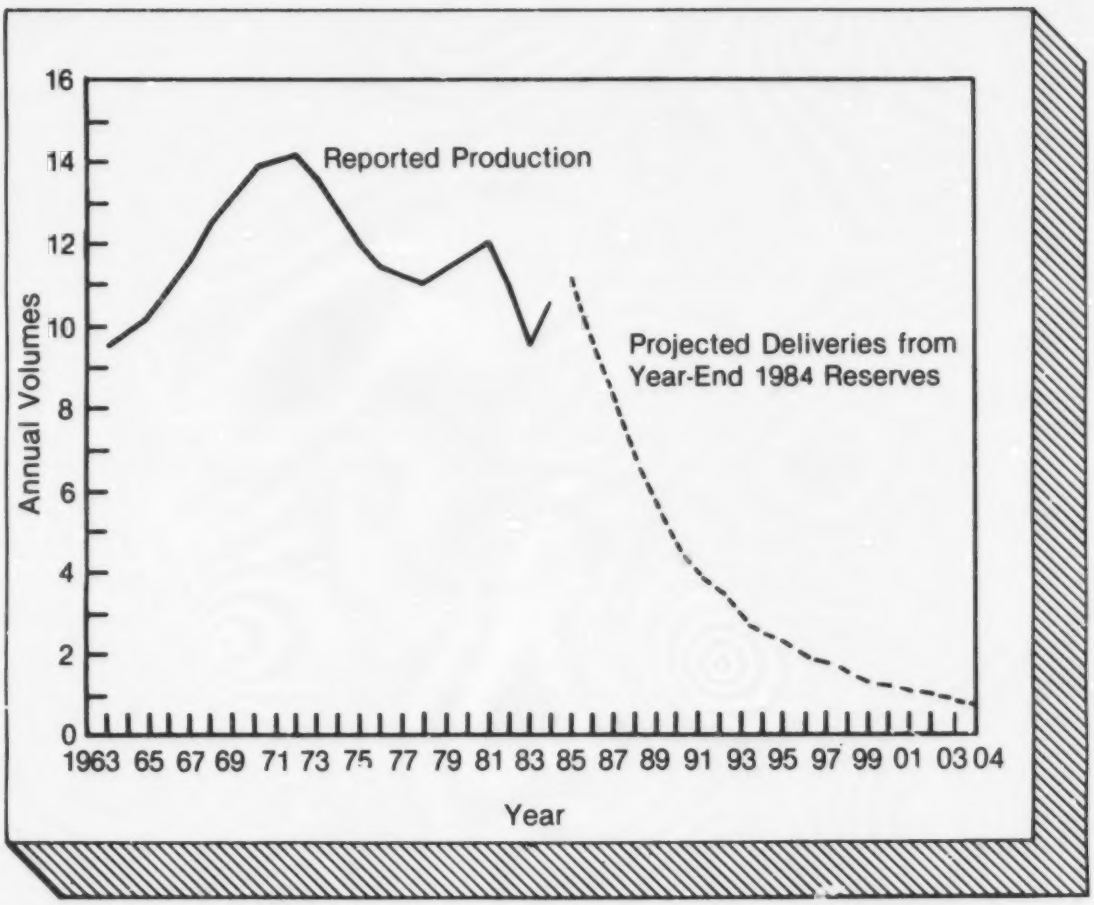
Figure 8. Production and Composite Forecast of Annual Deliveries 1963 through 2004
(Trillion Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)



Source: Energy Information Administration, Form FERC-15, "Interstate Pipeline's Annual Report of Gas Supply."

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Table 16. Deliverability Summaries: Estimated Annual Volumes

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Year	Owned and Contracted	Other Supply Contracts	Interstate Pipeline Purchases	Total	Annual Requirement	Total Certificate Requirement
			ANR Pipeline Co			
1985	478,144	0	140,733	618,877	592,000	837,382
1986	398,791	0	166,209	565,000	--	--
1987	372,297	0	192,703	565,000	--	--
1988	300,950	0	177,653	478,603	--	--
1989	212,229	0	175,547	387,776	--	--
1990	166,886	0	173,546	340,432	--	--
1991	106,887	0	171,645	278,532	--	--
1992	66,642	0	169,839	236,481	--	--
1993	46,243	0	168,124	214,367	--	--
1994	36,553	0	166,494	203,047	--	--
1995	28,740	0	164,946	193,686	--	--
1996	22,908	0	163,475	186,383	--	--
1997	19,317	0	162,078	181,395	--	--
1998	15,258	0	160,751	176,009	--	--
1999	10,547	0	159,490	170,037	--	--
2000	3,630	0	158,292	161,922	--	--
2001	2,916	0	157,154	160,070	--	--
2002	2,431	0	156,073	158,504	--	--
2003	2,212	0	155,046	157,258	--	--
2004	1,886	0	154,070	155,956	--	--
Projected Total	2,295,467	0	3,293,868	5,589,335	592,000	837,382
			Arkla Inc			
1985	224,185	2,045	19,901	246,131	255,112	0
1986	320,533	2,342	23,990	346,865	--	--
1987	298,523	2,342	23,990	324,855	--	--
1988	275,018	2,342	23,990	301,350	--	--
1989	253,223	2,342	23,990	279,555	--	--
1990	232,539	2,342	23,990	258,871	--	--
1991	215,901	2,342	23,990	242,233	--	--
1992	198,660	2,342	23,990	224,992	--	--
1993	184,494	2,342	23,990	210,826	--	--
1994	174,395	2,342	23,990	200,727	--	--
1995	162,185	2,342	23,990	188,517	--	--
1996	151,620	2,342	23,990	177,952	--	--
1997	142,603	2,342	23,990	168,935	--	--
1998	133,072	2,342	23,990	159,404	--	--
1999	125,046	2,342	23,990	151,378	--	--
2000	118,615	2,342	23,990	144,947	--	--
2001	113,223	2,342	23,990	139,555	--	--
2002	105,788	2,342	23,990	132,120	--	--
2003	98,820	2,342	23,990	125,152	--	--
2004	93,352	2,342	23,990	119,684	--	--
Projected Total	3,621,795	46,543	475,711	4,144,049	255,112	0
			Carnegie Natural Gas Co			
1985	4,700	0	21,594	26,294	23,105	0
1986	4,600	0	21,594	26,194	--	--
1987	4,450	0	21,594	26,044	--	--
1988	4,210	0	21,594	25,804	--	--
1989	3,970	0	21,594	25,564	--	--
1990	3,735	0	21,594	25,329	--	--
1991	3,480	0	21,594	25,074	--	--

Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 16. Deliverability Summaries: Estimated Annual Volumes (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Year	Owned and Contracted	Other Supply Contracts	Interstate Pipeline Purchases	Total	Annual Requirement	Total Certificate Requirement
			Carnegie Natural Gas Co			
1992	3,240	0	21,594	24,834	--	--
1993	3,000	0	21,594	24,594	--	--
1994	2,760	0	21,594	24,354	--	--
1995	2,520	0	21,594	24,114	--	--
1996	2,270	0	21,594	23,864	--	--
1997	2,035	0	21,594	23,629	--	--
1998	1,795	0	21,594	23,389	--	--
1999	1,560	0	21,594	23,154	--	--
2000	1,310	0	21,594	22,904	--	--
2001	1,075	0	21,594	22,669	--	--
2002	840	0	21,594	22,434	--	--
2003	600	0	21,594	22,194	--	--
2004	400	0	21,594	21,994	--	--
Projected Total	52,550	0	431,880	484,430	23,105	0
			Colorado Interstate Gas Co			
1985	240,254	0	19,175	259,429	231,883	390,485
1986	254,546	0	19,003	273,549	--	--
1987	273,557	0	19,139	292,696	--	--
1988	255,217	0	19,456	274,673	--	--
1989	227,331	0	23,544	250,875	--	--
1990	195,129	0	10,891	206,020	--	--
1991	167,417	0	8,166	175,583	--	--
1992	143,748	0	1,768	145,516	--	--
1993	123,804	0	1,421	125,225	--	--
1994	107,101	0	1,143	108,244	--	--
1995	92,099	0	919	93,018	--	--
1996	79,224	0	739	79,963	--	--
1997	68,148	0	595	68,743	--	--
1998	58,621	0	479	59,100	--	--
1999	50,426	0	385	50,811	--	--
2000	43,376	0	311	43,687	--	--
2001	37,312	0	249	37,561	--	--
2002	32,096	0	201	32,297	--	--
2003	27,609	0	161	27,770	--	--
2004	23,749	0	129	23,878	--	--
Projected Total	2,500,764	0	127,874	2,628,638	231,883	390,485
			Columbia Gas Transmission Corp			
1985	778,229	139	620,001	1,398,369	840,885	1,940,674
1986	623,165	139	620,150	1,243,454	--	--
1987	450,543	139	621,777	1,072,459	--	--
1988	356,382	139	623,478	979,999	--	--
1989	297,512	139	621,777	919,428	--	--
1990	244,344	139	616,517	861,000	--	--
1991	215,116	139	592,985	808,240	--	--
1992	190,390	139	568,497	759,026	--	--
1993	162,111	139	548,639	710,889	--	--
1994	142,692	139	533,988	676,819	--	--
1995	107,917	139	512,356	620,412	--	--
1996	80,108	139	502,777	583,024	--	--
1997	69,078	139	493,241	562,458	--	--
1998	60,742	139	485,921	546,802	--	--

Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 16. Deliverability Summaries: Estimated Annual Volumes (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Year	Owned and Contracted	Other Supply Contracts	Interstate Pipeline Purchases	Total	Annual Requirement	Total Certificate Requirement
			Columbia Gas Transmission Corp			
1999	53,819	139	479,384	533,342	--	--
2000	40,939	139	472,624	513,702	--	--
2001	32,554	139	464,321	497,014	--	--
2002	29,498	139	457,939	487,576	--	--
2003	26,104	139	450,499	476,742	--	--
2004	22,935	139	445,564	468,638	--	--
Projected Total	3,984,178	2,780	10,732,435	14,719,393	840,885	1,940,674
			Consolidated Gas Transmission Corp			
1985	136,899	0	598,951	735,850	521,368	0
1986	127,324	0	588,951	716,275	--	--
1987	122,082	0	588,025	710,107	--	--
1988	106,981	0	584,975	691,956	--	--
1989	92,074	0	562,973	655,047	--	--
1990	76,262	0	553,905	630,167	--	--
1991	68,142	0	540,814	608,956	--	--
1992	61,942	0	526,713	588,655	--	--
1993	57,061	0	509,713	566,774	--	--
1994	53,305	0	496,614	549,919	--	--
1995	48,407	0	482,186	530,593	-	--
1996	45,255	0	462,585	507,840	--	--
1997	42,020	0	436,961	478,981	--	--
1998	32,321	0	409,963	442,284	--	--
1999	26,533	0	390,978	417,511	--	--
2000	24,840	0	358,066	382,906	--	--
2001	23,300	0	318,884	342,184	--	--
2002	21,900	0	307,317	329,217	--	--
2003	20,600	0	295,861	316,461	--	--
2004	19,400	0	285,465	304,865	--	--
Projected Total	1,206,648	0	9,299,900	10,506,548	521,368	0
			El Paso Natural Gas Co			
1985	1,200,458	0	9,773	1,210,231	988,799	1,436,615
1986	1,049,496	0	8,785	1,058,281	--	--
1987	947,111	0	7,912	955,023	--	--
1988	850,633	0	5,183	855,816	--	--
1989	786,538	0	4,198	790,736	--	--
1990	723,394	0	3,431	726,825	--	--
1991	664,044	0	2,665	666,709	--	--
1992	598,527	0	1,387	599,914	--	--
1993	544,215	0	110	544,325	--	--
1994	501,218	0	0	501,218	--	--
1995	463,879	0	0	463,879	--	--
1996	429,386	0	0	429,386	--	--
1997	397,193	0	0	397,193	--	--
1998	369,855	0	0	369,855	--	--
1999	341,932	0	0	341,932	--	--
2000	317,404	0	0	317,404	--	--
2001	297,256	0	0	297,256	--	--
2002	277,765	0	0	277,765	--	--
2003	260,610	0	0	260,610	--	--
2004	244,441	0	0	244,441	--	--

Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 16. Deliverability Summaries: Estimated Annual Volumes (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Year	Owned and Contracted	Other Supply Contracts	Interstate Pipeline Purchases	Total	Annual Requirement	Total Certificate Requirement
			El Paso Natural Gas Co			
Projected Total	11,265,355	0	43,444	11,308,799	988,799	1,436,615
			Equitable Gas Co			
1985	13,725	0	72,653	86,378	70,542	75,942
1986	13,088	0	71,900	84,988	--	--
1987	12,482	0	71,115	83,597	--	--
1988	13,203	0	71,051	84,254	--	--
1989	13,046	0	70,713	83,759	--	--
1990	12,511	0	64,644	77,155	--	--
1991	11,992	0	63,675	75,668	--	--
1992	11,590	0	62,651	74,241	--	--
1993	11,200	0	61,609	72,809	--	--
1994	10,380	0	58,051	68,432	--	--
1995	9,622	0	54,915	64,537	--	--
1996	8,922	0	52,136	61,058	--	--
1997	8,273	0	49,663	57,936	--	--
1998	7,674	0	47,450	55,123	--	--
1999	7,119	0	47,459	52,578	--	--
2000	6,605	0	43,660	50,265	--	--
2001	6,129	0	42,025	48,154	--	--
2002	5,688	0	40,532	46,220	--	--
2003	5,280	0	39,161	44,441	--	--
2004	4,901	0	37,897	42,798	--	--
Projected Total	193,430	0	1,122,960	1,314,391	70,542	75,942
			Florida Gas Transmission Co			
1985	217,746	7,300	0	225,046	224,775	217,023
1986	191,798	32,120	18,250	242,168	--	--
1987	114,722	14,916	21,835	151,473	--	--
1988	74,989	0	21,895	96,884	--	--
1989	59,411	0	21,835	81,246	--	--
1990	55,646	0	18,785	74,431	--	--
1991	48,903	0	3,585	52,488	--	--
1992	39,466	0	3,595	43,061	--	--
1993	29,114	0	3,585	32,699	--	--
1994	19,181	0	3,585	22,766	--	--
1995	12,884	0	3,585	16,469	--	--
1996	8,670	0	3,595	12,265	--	--
1997	4,138	0	3,585	7,723	--	--
1998	1,846	0	3,585	5,431	--	--
1999	1,082	0	3,585	4,667	--	--
2000	776	0	0	776	--	--
2001	515	0	0	515	--	--
2002	306	0	0	306	--	--
2003	197	0	0	197	--	--
2004	76	0	0	76	--	--
Projected Total	881,466	54,336	134,885	1,070,687	224,775	217,023

Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 16. Deliverability Summaries: Estimated Annual Volumes (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Year	Owned and Contracted	Other Supply Contracts	Interstate Pipeline Purchases	Total	Annual Requirement	Total Certificate Requirement
			K N Energy Inc			
1985	88,127	0	6,304	94,431	94,431	94,431
1986	78,267	0	8,883	87,150	--	--
1987	75,687	0	8,525	84,212	--	--
1988	75,844	0	5,042	80,886	--	--
1989	76,836	0	2,491	79,327	--	--
1990	72,951	0	4,611	77,562	--	--
1991	72,065	0	4,202	76,267	--	--
1992	71,164	0	3,839	75,003	--	--
1993	65,023	0	3,499	68,522	--	--
1994	58,320	0	3,235	61,555	--	--
1995	53,242	0	3,007	56,249	--	--
1996	49,131	0	2,390	51,521	--	--
1997	43,752	0	1,720	45,472	--	--
1998	39,766	0	562	40,330	--	--
1999	33,448	0	196	33,644	--	--
2000	27,246	0	0	27,246	--	--
2001	23,903	0	0	23,903	--	--
2002	21,178	0	0	21,178	--	--
2003	19,369	0	0	19,369	--	--
2004	17,791	0	0	17,791	--	--
Projected Total	1,063,112	0	58,506	1,121,618	94,431	94,431
			Kentucky West Va Gas Co			
1985	22,760	0	0	22,760	22,760	0
1986	22,760	0	0	22,760	--	--
1987	22,760	0	0	22,760	--	--
1988	22,760	0	0	22,760	--	--
1989	22,760	0	0	22,760	--	--
1990	22,760	0	0	22,760	--	--
1991	22,760	0	0	22,760	--	--
1992	22,760	0	0	22,760	--	--
1993	22,760	0	0	22,760	--	--
1994	22,760	0	0	22,760	--	--
1995	18,845	0	0	18,845	--	--
1996	0	0	0	0	--	--
1997	0	0	0	0	--	--
1998	0	0	0	0	--	--
1999	0	0	0	0	--	--
2000	0	0	0	0	--	--
2001	0	0	0	0	--	--
2002	0	0	0	0	--	--
2003	0	0	0	0	--	--
2004	0	0	0	0	--	--
Projected Total	246,445	0	0	246,445	22,760	0
			Lone Star Gas Co Div Enserch Corp			
1985	29,559	3,630	0	33,189	21,150	30,157
1986	23,065	0	0	23,065	--	--
1987	19,975	0	0	19,975	--	--
1988	17,668	0	0	17,668	--	--
1989	15,125	0	0	15,125	--	--
1990	12,890	0	0	12,890	--	--
1991	10,926	0	0	10,926	--	--

Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 16. Deliverability Summaries: Estimated Annual Volumes (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Year	Owned and Contracted	Other Supply Contracts	Interstate Pipeline Purchases	Total	Annual Requirement	Total Certificate Requirement
Lone Star Gas Co Div Enserch Corp						
1992	9,482	0	0	9,482	--	--
1993	7,192	0	0	7,192	--	--
1994	4,905	0	0	4,905	--	--
1995	2,975	0	0	2,975	--	--
1996	2,407	0	0	2,407	--	--
1997	1,577	0	0	1,577	--	--
1998	789	0	0	789	--	--
1999	491	0	0	491	--	--
2000	357	0	0	357	--	--
2001	324	0	0	324	--	--
2002	305	0	0	305	--	--
2003	283	0	0	283	--	--
2004	251	0	0	251	--	--
Projected Total	160,546	3,630	0	164,176	21,150	30,157
Louisiana-Nevada Transit Co						
1985	4,439	0	0	4,439	4,347	1,570
1986	4,347	0	0	4,347	--	--
1987	4,293	0	0	4,293	--	--
1988	9,000	0	0	9,000	--	--
1989	8,534	0	0	8,534	--	--
1990	6,937	0	0	6,937	--	--
1991	6,027	0	0	6,027	--	--
1992	5,150	0	0	5,150	--	--
1993	4,431	0	0	4,431	--	--
1994	4,041	0	0	4,041	--	--
1995	3,525	0	0	3,525	--	--
1996	1,199	0	0	1,199	--	--
1997	15	0	0	15	--	--
1998	13	0	0	13	--	--
1999	0	0	0	0	--	--
2000	0	0	0	0	--	--
2001	0	0	0	0	--	--
2002	0	0	0	0	--	--
2003	0	0	0	0	--	--
2004	0	0	0	0	--	--
Projected Total	61,951	0	0	61,951	4,347	1,570
Mid Louisiana Gas Co						
1985	30,846	5,445	306	36,597	28,039	71,833
1986	27,843	1,360	239	29,442	--	--
1987	24,451	0	186	24,637	--	--
1988	20,228	0	145	20,373	--	--
1989	16,937	0	113	17,050	--	--
1990	15,773	0	89	15,862	--	--
1991	14,284	0	68	14,352	--	--
1992	12,547	0	54	12,601	--	--
1993	11,028	0	42	11,070	--	--
1994	9,743	0	33	9,776	--	--
1995	6,919	0	26	6,945	--	--
1996	6,128	0	20	6,148	--	--
1997	5,425	0	15	5,440	--	--
1998	4,918	0	12	4,930	--	--

Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 16. Deliverability Summaries: Estimated Annual Volumes (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Year	Owned and Contracted	Other Supply Contracts	Interstate Pipeline Purchases	Total	Annual Requirement	Total Certificate Requirement
			Mid Louisiana Gas Co			
1999	4,489	0	9	4,498	--	--
2000	3,269	0	0	3,269	--	--
2001	2,957	0	0	2,957	--	--
2002	1,214	0	0	1,214	--	--
2003	1,183	0	0	1,183	--	--
2004	122	0	0	122	--	--
Projected Total	220,304	6,805	1,357	228,466	28,039	71,833
			MIGC Inc			
1985	10,191	0	0	10,191	10,191	29,000
1986	9,622	0	0	9,622	--	--
1987	9,133	0	0	9,133	--	--
1988	8,595	0	0	8,595	--	--
1989	8,147	0	0	8,147	--	--
1990	7,809	0	0	7,809	--	--
1991	7,292	0	0	7,292	--	--
1992	6,778	0	0	6,778	--	--
1993	5,862	0	0	5,862	--	--
1994	0	0	0	0	--	--
1995	0	0	0	0	--	--
1996	0	0	0	0	--	--
1997	0	0	0	0	--	--
1998	0	0	0	0	--	--
1999	0	0	0	0	--	--
2000	0	0	0	0	--	--
2001	0	0	0	0	--	--
2002	0	0	0	0	--	--
2003	0	0	0	0	--	--
2004	0	0	0	0	--	--
Projected Total	73,429	0	0	73,429	10,191	29,000
			Mississippi River Transmission Corp			
1985	22,860	3,435	114,893	141,188	147,152	147,152
1986	16,850	0	112,078	128,928	--	--
1987	13,492	0	98,258	111,750	--	--
1988	11,083	0	74,018	85,101	--	--
1989	9,251	0	58,294	67,545	--	--
1990	9,519	0	40,398	49,917	--	--
1991	8,092	0	31,923	40,015	--	--
1992	6,946	0	30,474	37,420	--	--
1993	5,864	0	26,753	32,617	--	--
1994	5,0*0	0	24,003	29,013	--	--
1995	4,172	0	21,278	25,450	--	--
1996	3,5*6	0	17,578	21,094	--	--
1997	2,880	0	8,197	11,077	--	--
1998	2,417	0	6,832	9,249	--	--
1999	1,922	0	5,413	7,335	--	--
2000	1,710	0	4,437	6,147	--	--
2001	1,128	0	3,563	4,691	--	--
2002	978	0	2,977	3,955	--	--
2003	792	0	2,536	3,328	--	--
2004	557	0	2,087	2,644	--	--

Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 16. Deliverability Summaries: Estimated Annual Volumes (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Year	Owned and Contracted	Other Supply Contracts	Interstate Pipeline Purchases	Total	Annual Requirement	Total Certificate Requirement
			Mississippi River Transmission Corp			
Projected Total	129,039	3,435	685,990	818,464	147,152	147,152
			Montana-Dakota Utilities Co			
1985	42,600	0	0	42,600	42,600	0
1986	64,750	0	0	64,750	--	--
1987	57,100	0	0	57,100	--	--
1988	55,850	0	0	55,850	--	--
1989	56,400	0	0	56,400	--	--
1990	56,800	0	0	56,800	--	--
1991	56,100	0	0	56,100	--	--
1992	49,400	0	0	49,400	--	--
1993	47,000	0	0	47,000	--	--
1994	43,100	0	0	43,100	--	--
1995	38,900	0	0	38,900	--	--
1996	35,100	0	0	35,100	--	--
1997	31,700	0	0	31,700	--	--
1998	28,600	0	0	28,600	--	--
1999	25,900	0	0	25,900	--	--
2000	23,400	0	0	23,400	--	--
2001	21,100	0	0	21,100	--	--
2002	19,100	0	0	19,100	--	--
2003	17,300	0	0	17,300	--	--
2004	15,700	0	0	15,700	--	--
Projected Total	785,900	0	0	785,900	42,600	0
			Mountain Fuel Resources Inc			
1985	60,710	7,097	28,044	95,851	78,865	206,225
1986	49,734	6,182	28,044	83,960	--	--
1987	41,396	5,469	28,044	74,909	--	--
1988	34,897	4,890	28,118	67,905	--	--
1989	29,769	4,404	23,448	57,621	--	--
1990	25,656	3,987	545	30,188	--	--
1991	22,315	3,621	545	26,481	--	--
1992	19,547	3,296	409	23,252	--	--
1993	17,213	2,979	0	20,192	--	--
1994	15,285	2,665	0	17,950	--	--
1995	13,646	2,435	0	16,081	--	--
1996	12,251	2,232	0	14,483	--	--
1997	11,046	2,046	0	13,092	--	--
1998	10,012	1,877	0	11,889	--	--
1999	9,095	1,722	0	10,817	--	--
2000	8,276	1,582	0	9,858	--	--
2001	7,582	1,453	0	9,035	--	--
2002	6,963	1,334	0	8,297	--	--
2003	6,407	1,227	0	7,634	--	--
2004	5,938	1,127	0	7,065	--	--
Projected Total	407,738	61,625	137,197	606,560	78,865	206,225

Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 16. Deliverability Summaries: Estimated Annual Volumes (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Year	Owned and Contracted	Other Supply Contracts	Interstate Pipeline Purchases	Total	Annual Requirement	Total Certificate Requirement
			National Fuel Gas Supply Corp			
1985	20,230	0	188,524	208,754	173,017	0
1986	19,344	0	149,318	168,662	--	--
1987	30,914	0	126,390	157,304	--	--
1988	31,062	0	126,753	157,815	--	--
1989	30,932	0	117,122	148,054	--	--
1990	0	0	117,122	117,122	--	--
1991	0	0	117,122	117,122	--	--
1992	0	0	106,022	106,022	--	--
1993	0	0	105,734	105,734	--	--
1994	0	0	105,734	105,734	--	--
1995	0	0	105,734	105,734	--	--
1996	0	0	106,022	106,022	--	--
1997	0	0	105,734	105,734	--	--
1998	0	0	105,734	105,734	--	--
1999	0	0	105,734	105,734	--	--
2000	0	0	106,022	106,022	--	--
2001	0	0	0	0	--	--
2002	0	0	0	0	--	--
2003	0	0	0	0	--	--
2004	0	0	0	0	--	--
Projected Total	132,482	0	1,894,821	2,027,303	173,017	0
			Natural Gas Pipeline Co of America			
1985	900,951	5,152	90,751	996,854	996,854	1,247,688
1986	681,844	40,460	133,219	855,523	--	--
1987	533,319	27,425	144,707	705,451	--	--
1988	399,469	2,611	142,179	544,259	--	--
1989	332,053	2,029	134,579	468,661	--	--
1990	273,522	1,650	105,758	380,930	--	--
1991	228,256	1,399	51,778	281,433	--	--
1992	191,360	1,230	50,250	242,840	--	--
1993	170,707	1,110	49,531	221,348	--	--
1994	153,408	624	47,880	201,912	--	--
1995	143,528	68	46,450	190,046	--	--
1996	132,177	7	45,434	177,618	--	--
1997	116,642	7	44,375	161,024	--	--
1998	103,059	6	43,336	146,402	--	--
1999	76,315	6	42,356	118,677	--	--
2000	65,739	5	40,983	106,727	--	--
2001	51,503	5	39,644	91,152	--	--
2002	43,546	4	38,317	81,867	--	--
2003	36,668	0	37,170	73,838	--	--
2004	27,000	0	36,028	63,028	--	--
Projected Total	4,661,066	83,798	1,364,725	6,109,590	996,854	1,247,688
			Northern Natural Div InterNorth Inc			
1985	552,565	1,139	76,852	630,556	608,555	109,443
1986	529,917	1,173	59,559	590,649	--	--
1987	513,967	1,181	60,188	575,336	--	--
1988	458,642	1,025	41,488	501,155	--	--
1989	418,471	844	0	419,315	--	--
1990	373,130	678	0	373,808	--	--
1991	324,960	488	0	325,448	--	--

Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 16. Deliverability Summaries: Estimated Annual Volumes (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Year	Owned and Contracted	Other Supply Contracts	Interstate Pipeline Purchases	Total	Annual Requirement	Total Certificate Requirement
			Northern Natural Div InterNorth Inc			
1992	272,104	304	0	272,408	--	--
1993	228,486	194	0	228,680	--	--
1994	170,702	92	0	170,794	--	--
1995	152,560	37	0	152,597	--	--
1996	132,376	37	0	132,413	--	--
1997	117,747	0	0	117,747	--	--
1998	104,134	0	0	104,134	--	--
1999	88,671	0	0	88,671	--	--
2000	76,219	0	0	76,219	--	--
2001	68,669	0	0	68,669	--	--
2002	59,265	0	0	59,265	--	--
2003	53,675	0	0	53,675	--	--
2004	47,939	0	0	47,939	--	--
Projected Total	4,744,199	7,192	238,087	4,989,478	608,555	109,443
			Northwest Central Pipeline Corp			
1985	266,075	0	31,068	297,143	297,143	0
1986	266,749	0	29,781	296,530	--	--
1987	267,084	0	30,681	297,765	--	--
1988	262,459	0	30,491	292,950	--	--
1989	278,540	0	12,775	291,315	--	--
1990	278,403	0	12,775	291,178	--	--
1991	279,571	0	12,775	292,346	--	--
1992	292,984	0	0	292,984	--	--
1993	280,703	0	0	280,703	--	--
1994	249,701	0	0	249,701	--	--
1995	232,742	0	0	232,742	--	--
1996	206,160	0	0	206,160	--	--
1997	186,745	0	0	186,745	--	--
1998	169,402	0	0	169,402	--	--
1999	155,130	0	0	155,130	--	--
2000	137,542	0	0	137,542	--	--
2001	120,465	0	0	120,465	--	--
2002	111,105	0	0	111,105	--	--
2003	102,835	0	0	102,835	--	--
2004	95,483	0	0	95,483	--	--
Projected Total	4,239,878	0	160,346	4,400,224	297,143	0
			Northwest Pipeline Corp			
1985	164,000	0	331,400	495,400	276,212	515,161
1986	164,000	0	319,200	483,200	--	--
1987	164,000	0	306,200	470,200	--	--
1988	164,000	0	295,400	459,400	--	--
1989	164,000	0	246,000	410,000	--	--
1990	162,131	0	0	162,131	--	--
1991	152,519	0	0	152,519	--	--
1992	143,965	0	0	143,965	--	--
1993	136,326	0	0	136,326	--	--
1994	129,473	0	0	129,473	--	--
1995	123,306	0	0	123,306	--	--
1996	117,733	0	0	117,733	--	--
1997	112,690	0	0	112,690	--	--
1998	108,101	0	0	108,101	--	--

Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 16. Deliverability Summaries: Estimated Annual Volumes (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Year	Owned and Contracted	Other Supply Contracts	Interstate Pipeline Purchases	Total	Annual Requirement	Total Certificate Requirement
			Northwest Pipeline Corp			
1999	103,923	0	0	103,923	--	--
2000	100,131	0	0	100,131	--	--
2001	96,663	0	0	96,663	--	--
2002	93,479	0	0	93,479	--	--
2003	90,544	0	0	90,544	--	--
2004	87,839	0	0	87,839	--	--
Projected Total	2,578,823	0	1,498,200	4,077,023	276,212	515,161
			Panhandle Eastern Pipe Line Co			
1985	416,435	0	236,440	652,875	372,848	820,471
1986	361,624	0	212,917	574,541	--	--
1987	302,964	0	173,145	476,109	--	--
1988	257,415	0	122,602	380,017	--	--
1989	212,220	0	35,705	247,925	--	--
1990	184,975	0	22,695	207,670	--	--
1991	162,556	0	16,405	178,961	--	--
1992	145,337	0	10,774	156,111	--	--
1993	131,704	0	9,416	141,120	--	--
1994	120,746	0	8,200	128,946	--	--
1995	112,636	0	6,660	119,296	--	--
1996	105,113	0	5,622	110,735	--	--
1997	98,657	0	4,450	103,107	--	--
1998	93,418	0	2,375	95,793	--	--
1999	85,503	0	1,495	86,998	--	--
2000	77,004	0	1,200	78,204	--	--
2001	68,094	0	751	68,845	--	--
2002	60,965	0	532	61,497	--	--
2003	55,033	0	416	55,449	--	--
2004	50,389	0	357	50,746	--	--
Projected Total	3,102,788	0	872,157	3,974,945	372,848	820,471
			Ringwood Gathering Co			
1985	5,952	0	0	5,952	5,952	0
1986	5,688	0	0	5,688	--	--
1987	5,314	0	0	5,314	--	--
1988	4,671	0	0	4,671	--	--
1989	4,116	0	0	4,116	--	--
1990	3,652	0	0	3,652	--	--
1991	3,233	0	0	3,233	--	--
1992	2,839	0	0	2,839	--	--
1993	2,458	0	0	2,458	--	--
1994	2,193	0	0	2,193	--	--
1995	0	0	0	0	--	--
1996	0	0	0	0	--	--
1997	0	0	0	0	--	--
1998	0	0	0	0	--	--
1999	0	0	0	0	--	--
2000	0	0	0	0	--	--
2001	0	0	0	0	--	--
2002	0	0	0	0	--	--
2003	0	0	0	0	--	--
2004	0	0	0	0	--	--

Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 16. Deliverability Summaries: Estimated Annual Volumes (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Year	Owned and Contracted	Other Supply Contracts	Interstate Pipeline Purchases	Total	Annual Requirement	Total Certificate Requirement
			Ringwood Gathering Co			
Projected Total	40,116	0	0	40,116	5,952	0
			Sea Robin Pipeline Co			
1985	139,822	0	0	139,822	146,000	334,705
1986	95,780	0	0	95,780	--	--
1987	65,402	0	0	65,402	--	--
1988	44,206	0	0	44,206	--	--
1989	30,460	0	0	30,460	--	--
1990	20,992	0	0	20,992	--	--
1991	14,175	0	0	14,175	--	--
1992	9,266	0	0	9,266	--	--
1993	5,314	0	0	5,314	--	--
1994	2,566	0	0	2,566	--	--
1995	1,504	0	0	1,504	--	--
1996	800	0	0	800	--	--
1997	640	0	0	640	--	--
1998	510	0	0	510	--	--
1999	400	0	0	400	--	--
2000	169	0	0	169	--	--
2001	0	0	0	0	--	--
2002	0	0	0	0	--	--
2003	0	0	0	0	--	--
2004	0	0	0	0	--	--
Projected Total	432,006	0	0	432,006	146,000	334,705
			Southern Natural Gas Co			
1985	401,877	0	59,123	461,000	461,000	809,271
1986	427,484	0	33,516	461,000	--	--
1987	317,811	0	94,695	412,506	--	--
1988	217,286	0	78,165	295,451	--	--
1989	150,364	0	54,952	205,316	--	--
1990	99,954	0	46,929	146,883	--	--
1991	75,711	0	46,861	122,572	--	--
1992	54,669	0	46,182	100,851	--	--
1993	35,717	0	44,133	79,850	--	--
1994	17,387	0	42,340	59,727	--	--
1995	20,402	0	33,664	54,066	--	--
1996	19,346	0	32,627	51,973	--	--
1997	18,512	0	31,586	50,098	--	--
1998	15,198	0	29,195	44,393	--	--
1999	12,309	0	26,942	39,251	--	--
2000	5,750	0	24,913	30,663	--	--
2001	2,921	0	23,294	26,215	--	--
2002	2,799	0	22,045	24,844	--	--
2003	1,746	0	20,872	22,618	--	--
2004	1,109	0	19,828	20,937	--	--
Projected Total	1,898,352	0	811,862	2,710,214	461,000	809,271

Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 16. Deliverability Summaries: Estimated Annual Volumes (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Year	Owned and Contracted	Other Supply Contracts	Interstate Pipeline Purchases	Total	Annual Requirement	Total Certificate Requirement
			Tennessee Gas Pipeline Div Tenneco			
1985	1,146,140	0	26,462	1,172,602	0	0
1986	861,265	0	20,987	882,252	--	--
1987	670,734	0	56,576	727,310	--	--
1988	533,849	0	51,101	584,948	--	--
1989	433,993	0	45,078	479,071	--	--
1990	361,187	0	41,063	402,250	--	--
1991	305,366	0	41,063	346,429	--	--
1992	260,284	0	41,063	301,347	--	--
1993	223,597	0	41,063	264,660	--	--
1994	191,909	0	41,063	232,972	--	--
1995	166,174	0	41,063	207,237	--	--
1996	144,519	0	41,063	185,582	--	--
1997	125,314	0	41,063	166,377	--	--
1998	111,960	0	41,063	153,023	--	--
1999	98,488	0	41,026	139,514	--	--
2000	85,603	0	0	85,603	--	--
2001	76,145	0	0	76,145	--	--
2002	68,481	0	0	68,481	--	--
2003	60,740	0	0	60,740	--	--
2004	54,649	0	0	54,649	--	--
Projected Total	5,980,397	0	610,797	6,591,192	0	0
			Texas Eastern Transmission Corp			
1985	773,895	668	298,624	1,073,187	918,046	1,092,925
1986	695,959	668	293,039	989,666	--	--
1987	595,262	0	317,587	912,849	--	--
1988	514,136	0	312,042	826,178	--	--
1989	414,331	0	306,507	720,838	--	--
1990	214,138	0	288,952	503,090	--	--
1991	139,544	0	288,952	428,496	--	--
1992	94,823	0	258,839	353,662	--	--
1993	66,671	0	258,839	325,510	--	--
1994	49,166	0	258,839	308,005	--	--
1995	21,471	0	248,254	269,725	--	--
1996	8,103	0	248,254	256,357	--	--
1997	7,436	0	248,254	255,690	--	--
1998	3,269	0	248,254	251,523	--	--
1999	1,559	0	248,254	249,813	--	--
2000	300	0	238,399	238,699	--	--
2001	125	0	238,399	238,524	--	--
2002	0	0	238,399	238,399	--	--
2003	0	0	238,399	238,399	--	--
2004	0	0	238,399	238,399	--	--
Projected Total	3,600,188	1,336	5,315,485	8,917,009	918,046	1,092,925
			Texas Gas Transmission Corp			
1985	441,724	0	227,580	669,304	500,273	772,037
1986	400,311	0	205,259	605,570	--	--
1987	304,711	0	199,291	504,002	--	--
1988	240,800	0	185,340	426,140	--	--
1989	174,021	0	172,367	346,388	--	--
1990	95,821	0	160,301	256,122	--	--
1991	69,418	0	149,079	218,497	--	--

Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 16. Deliverability Summaries: Estimated Annual Volumes (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Year	Owned and Contracted	Other Supply Contracts	Interstate Pipeline Purchases	Total	Annual Requirement	Total Certificate Requirement
Texas Gas Transmission Corp						
1992	61,593	0	138,645	200,238	--	--
1993	53,123	0	128,940	182,063	--	--
1994	46,765	0	119,914	166,679	--	--
1995	39,927	0	111,520	151,447	--	--
1996	36,291	0	103,713	140,004	--	--
1997	32,332	0	96,454	128,786	--	--
1998	27,250	0	89,702	116,952	--	--
1999	22,927	0	83,423	106,350	--	--
2000	19,781	0	77,583	97,364	--	--
2001	17,154	0	72,152	89,306	--	--
2002	14,857	0	67,101	81,958	--	--
2003	12,878	0	62,404	75,282	--	--
2004	11,322	0	58,036	69,358	--	--
Projected Total	2,123,006	0	2,508,804	4,631,810	500,273	772,037
Transcontinental Gas Pipe Line Corp						
1985	1,147,855	0	39,019	1,186,874	819,570	1,127,424
1986	877,981	0	38,800	916,781	--	--
1987	647,257	0	48,692	695,949	--	--
1988	471,796	0	43,071	514,867	--	--
1989	377,823	0	37,087	414,910	--	--
1990	310,075	0	30,989	341,064	--	--
1991	248,746	0	26,426	275,172	--	--
1992	194,395	0	26,426	220,821	--	--
1993	124,052	0	18,560	142,612	--	--
1994	94,483	0	10,509	104,992	--	--
1995	81,204	0	5,475	86,679	--	--
1996	70,151	0	2,517	72,668	--	--
1997	55,753	0	0	55,753	--	--
1998	49,131	0	0	49,131	--	--
1999	45,782	0	0	45,782	--	--
2000	40,946	0	0	40,946	--	--
2001	36,401	0	0	36,401	--	--
2002	30,969	0	0	30,969	--	--
2003	28,914	0	0	28,914	--	--
2004	26,400	0	0	26,400	--	--
Projected Total	4,960,114	0	327,571	5,287,685	819,570	1,127,424
Transwestern Pipeline Co						
1985	277,633	7,300	0	284,933	255,049	383,250
1986	226,453	7,300	0	233,753	--	--
1987	184,693	7,300	0	191,993	--	--
1988	149,088	0	0	149,088	--	--
1989	120,124	0	0	120,124	--	--
1990	99,688	0	0	99,688	--	--
1991	87,290	0	0	87,290	--	--
1992	72,520	0	0	72,520	--	--
1993	60,618	0	0	60,618	--	--
1994	51,348	0	0	51,348	--	--
1995	43,465	0	0	43,465	--	--
1996	36,927	0	0	36,927	--	--
1997	30,454	0	0	30,454	--	--
1998	24,566	0	0	24,566	--	--

Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 16. Deliverability Summaries: Estimated Annual Volumes (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Year	Owned and Contracted	Other Supply Contracts	Interstate Pipeline Purchases	Total	Annual Requirement	Total Certificate Requirement
			Transwestern Pipeline Co			
1999	22,698	0	0	22,698	--	--
2000	21,247	0	0	21,247	--	--
2001	19,786	0	0	19,786	--	--
2002	19,095	0	0	19,095	--	--
2003	1,298	0	0	1,298	--	--
2004	334	0	0	334	--	--
Projected Total	1,549,325	21,900	0	1,571,225	255,049	383,250
			Trunkline Gas Co			
1985	469,185	0	0	469,185	226,741	612,500
1986	354,760	0	0	354,760	--	--
1987	264,822	0	0	264,822	--	--
1988	170,819	0	0	170,819	--	--
1989	77,364	0	0	77,364	--	--
1990	48,851	0	0	48,851	--	--
1991	34,990	0	0	34,990	--	--
1992	22,499	0	0	22,499	--	--
1993	19,676	0	0	19,676	--	--
1994	17,109	0	0	17,109	--	--
1995	13,807	0	0	13,807	--	--
1996	11,594	0	0	11,594	--	--
1997	9,060	0	0	9,060	--	--
1998	4,405	0	0	4,405	--	--
1999	2,487	0	0	2,487	--	--
2000	1,898	0	0	1,898	--	--
2001	933	0	0	933	--	--
2002	509	0	0	509	--	--
2003	285	0	0	285	--	--
2004	194	0	0	194	--	--
Projected Total	1,525,247	0	0	1,525,247	226,741	612,500
			United Gas Pipe Line Co			
1985	388,219	36,500	193,281	618,000	618,000	2,340,857
1986	410,240	36,500	171,260	618,000	--	--
1987	355,008	36,500	156,071	547,579	--	--
1988	253,298	36,600	120,923	410,821	--	--
1989	184,516	36,500	97,355	318,371	--	--
1990	137,165	0	76,196	213,361	--	--
1991	103,603	0	67,527	171,130	--	--
1992	101,473	0	65,237	166,710	--	--
1993	82,201	0	63,096	145,297	--	--
1994	68,210	0	61,722	129,932	--	--
1995	52,564	0	61,191	113,755	--	--
1996	40,396	0	50,903	91,299	--	--
1997	32,129	0	320	32,449	--	--
1998	25,209	0	255	25,464	--	--
1999	19,631	0	200	19,831	--	--
2000	14,941	0	84	15,025	--	--
2001	11,358	0	0	11,358	--	--
2002	8,754	0	0	8,754	--	--
2003	6,924	0	0	6,924	--	--
2004	5,408	0	0	5,408	--	--

Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 16. Deliverability Summaries: Estimated Annual Volumes (Continued)

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Year	Owned and Contracted	Other Supply Contracts	Interstate Pipeline Purchases	Total	Annual Requirement	Total Certificate Requirement
			United Gas Pipe Line Co			
Projected Total	2,301,247	182,600	1,185,621	3,669,468	618,000	2,340,857
			Valero Interstate Transmission Co			
1985	21,261	0	0	21,261	0	0
1986	19,532	0	0	19,532	--	--
1987	14,658	0	0	14,658	--	--
1988	11,228	0	0	11,228	--	--
1989	8,557	0	0	8,557	--	--
1990	6,692	0	0	6,692	--	--
1991	5,250	0	0	5,250	--	--
1992	4,147	0	0	4,147	--	--
1993	3,149	0	0	3,149	--	--
1994	2,402	0	0	2,402	--	--
1995	1,767	0	0	1,767	--	--
1996	1,458	0	0	1,458	--	--
1997	1,269	0	0	1,269	--	--
1998	944	0	0	944	--	--
1999	742	0	0	742	--	--
2000	560	0	0	560	--	--
2001	416	0	0	416	--	--
2002	314	0	0	314	--	--
2003	268	0	0	268	--	--
2004	238	0	0	238	--	--
Projected Total	104,852	0	0	104,852	0	0
			West Texas Gathering Co			
1985	13,305	0	0	13,305	13,305	69,350
1986	10,025	0	0	10,025	--	--
1987	7,381	0	0	7,381	--	--
1988	5,340	0	0	5,340	--	--
1989	4,444	0	0	4,444	--	--
1990	3,705	0	0	3,705	--	--
1991	3,096	0	0	3,096	--	--
1992	2,594	0	0	2,594	--	--
1993	2,177	0	0	2,177	--	--
1994	1,833	0	0	1,833	--	--
1995	1,512	0	0	1,512	--	--
1996	1,279	0	0	1,279	--	--
1997	1,087	0	0	1,087	--	--
1998	927	0	0	927	--	--
1999	794	0	0	794	--	--
2000	680	0	0	680	--	--
2001	325	0	0	325	--	--
2002	237	0	0	237	--	--
2003	222	0	0	222	--	--
2004	206	0	0	206	--	--
Projected Total	61,169	0	0	61,169	13,305	69,350

Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Table 17. Composite Deliverability Projections for Thirty-Six Companies[a]

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Year	Owned and Contracted	Other Supply Contracts	Interstate Pipeline Purchases	Total	Annual Requirement	Total Certificate Requirement
1985	11,153,556	79,850	3,451,452	14,684,858	10,886,569	15,713,571
1986	9,689,535	128,244	3,354,931	13,172,710	--	--
1987	8,109,355	95,272	3,417,326	11,621,953	--	--
1988	6,683,072	47,607	3,206,153	9,936,830	--	--
1989	5,605,422	46,258	2,870,044	8,521,724	--	--
1990	4,615,622	8,796	2,435,726	7,060,144	--	--
1991	3,960,027	7,989	2,283,845	6,251,862	--	--
1992	3,444,831	7,311	2,158,248	5,610,390	--	--
1993	2,974,294	6,764	2,088,391	5,069,449	--	--
1994	2,580,150	5,862	2,028,931	4,614,944	--	--
1995	2,279,046	5,021	1,948,813	4,232,880	--	--
1996	2,002,518	4,757	1,887,034	3,894,309	--	--
1997	1,795,667	4,534	1,773,875	3,574,076	--	--
1998	1,609,184	4,364	1,721,053	3,334,601	--	--
1999	1,430,768	4,209	1,681,913	3,114,890	--	--
2000	1,270,263	4,068	1,572,158	2,846,489	--	--
2001	1,142,232	3,939	1,406,020	2,552,191	--	--
2002	1,040,425	3,819	1,377,017	2,421,261	--	--
2003	939,396	3,708	1,348,109	2,291,213	--	--
2004	860,009	3,608	1,323,444	2,187,061	--	--
Projected Total	73,185,372	475,980	43,334,483	116,993,835	10,886,569	15,713,571

[a] Interstate Pipelines required to file Schedule I of the Form 15.
Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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Pipeline Imports

Interstate pipeline companies required to file Form 15 reported imports of natural gas into the United States of 735,627 million cubic feet (MMcf) from Canada during 1984. Border Gas Incorporated, the sole importer of natural gas from Mexico during 1984, imported 51,502 MMcf (Table 18).

The remaining gas supply under contract between Form 15 respondents and Canadian firms increased by 17.6 percent, from 8,277.971 MMcf in 1983 to 9,733,544 MMcf in 1984. In comparison, the Mexican gas supply remaining under contract decreased by 22.2 percent, from 1,208,302 MMcf in 1983 to 940,323 MMcf in 1984 (Table 18).

The importation of natural gas from Canada continues to be an important part of the interstate pipeline companies' actions to procure supplemental supplies of natural gas to augment domestic gas supply.

Canada's implementation of a new natural gas export pricing policy[3] and the U.S. Department of Energy's issuance of new policy guidelines and delegation orders on the regulation of imported natural gas[4] will establish Canadian export and import natural gas trade on a market-competitive basis.

Under the new Canadian natural gas export pricing policy, exporters of Canadian natural gas will be free to negotiate prices directly with their customers. The new pricing policy which was effective as of November 1, 1984, gives natural gas exporters the option to remain with the existing two-tiered administered price or negotiate a new price.

All negotiated contractual agreements must meet certain conditions. Primarily, they must enhance economic return to Canada and be in Canada's national interest. Additionally, the new price must not be less than the price paid by Canadians. Negotiated price agreements are subject to review by the National Energy Board (NEB) and approval by the Government of Canada.

Under the new pricing policy, Canadian natural gas exporters are free to participate in the U.S. market for spot or short-term direct sales. Negotiated agreements for spot or short-term sales must meet the applicable general criteria. Canadian exporters must also demonstrate that the spot sales are incremental and will not directly or indirectly displace other Canadian gas sales. In addition, the exporters must demonstrate that the spot sales are on an interruptible or best efforts basis to ensure that longer term export sales and capacity are not pre-empted.

Canada's new natural gas pricing policy is expected to stabilize gas export sales in the short term, increase sales opportunities in the medium and long term, enhance cash flow to producers, and promote activity by the natural gas industry.

The U.S. Department of Energy issued new policy guidelines and delegation orders on the regulation of imported natural gas in February 1984. The guidelines constitute a policy emphasis on import agreements structured to supply natural gas at competitive prices which reflect changes in the market area served. The new policy guidelines are designed to establish natural gas trade on a market-competitive basis and to provide immediate and long-term benefits to the U.S. economy. In addition, the policy contains revised regulatory procedures, and changes in the regulatory responsibilities for imported gas shared by the Economic Regulatory Administration and the Federal Energy Regulatory Commission.

[3]Canada's Minister of Energy, Mines and Resources. Communique 84/81 issued by the Minister of Energy, Mines and Resources dated July 13, 1984.

[4]United States Department of Energy. *New Policy Guidelines and Delegation Orders on the Regulation of Imported Natural Gas*, DOE, Washington, D.C., February 17, 1984.

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Table 18. Pipeline Imports

(Million Cubic Feet at 14.73 Psia and 60 Degrees Fahrenheit)

Importing Company	1983	1984
Canadian Gas		
Contracted Gas Supply		
ANR Pipeline Co	413,570	426,100
Boundary Gas Inc	0	60,840
Great Lakes Gas Transmission Co	901,689	778,622
Inter-City Minnesota Pipelines Ltd	112,046	106,574
Midwestern Gas Transmission Co	607,145	360,090
Natural Gas Pipeline Co of America	71,784	102,320
Northern Natural Div InterNorth Inc	168,839	55,385
Northwest Alaskan Pipeline Co	1,834,560	4,491,760
Northwest Pipeline Corp	1,842,287	1,497,566
Pacific Gas Transmission Co	1,858,700	1,446,500
Tennessee Gas Pipeline Div Tenneco	104,629	77,550
Texas Eastern Transmission Corp	96,725	77,550
Transcontinental Gas Pipe Line Corp	265,997	252,687
Total	8,277,971	9,733,544
Annual Imports		
ANR Pipeline Co	12,851	40,065
Boundary Gas Inc	0	2,440
Great Lakes Gas Transmission Co	43,885	43,471
Inter-City Minnesota Pipelines Ltd	5,636	5,472
Midwestern Gas Transmission Co	36,967	55,722
Natural Gas Pipeline Co of America	10,554	2,162
Northern Natural Div InterNorth Inc	21,441	29,854
Northwest Alaskan Pipeline Co	149,488	160,667
Northwest Pipeline Corp	108,777	111,569
Pacific Gas Transmission Co	248,903	232,282
Tennessee Gas Pipeline Div Tenneco	14,694	12,311
Texas Eastern Transmission Corp	20,914	17,094
Transcontinental Gas Pipe Line Corp	22,931	22,518
Total	697,041	735,627
Mexican Gas		
Contracted Gas Supply		
Border Gas Inc	1,208,302	940,323
Total	1,208,302	940,323
Annual Imports		
Border Gas Inc	75,361	51,502
Total	75,361	51,502

Source: FERC Form 15: Interstate Pipelines Annual Report of Gas Supply.

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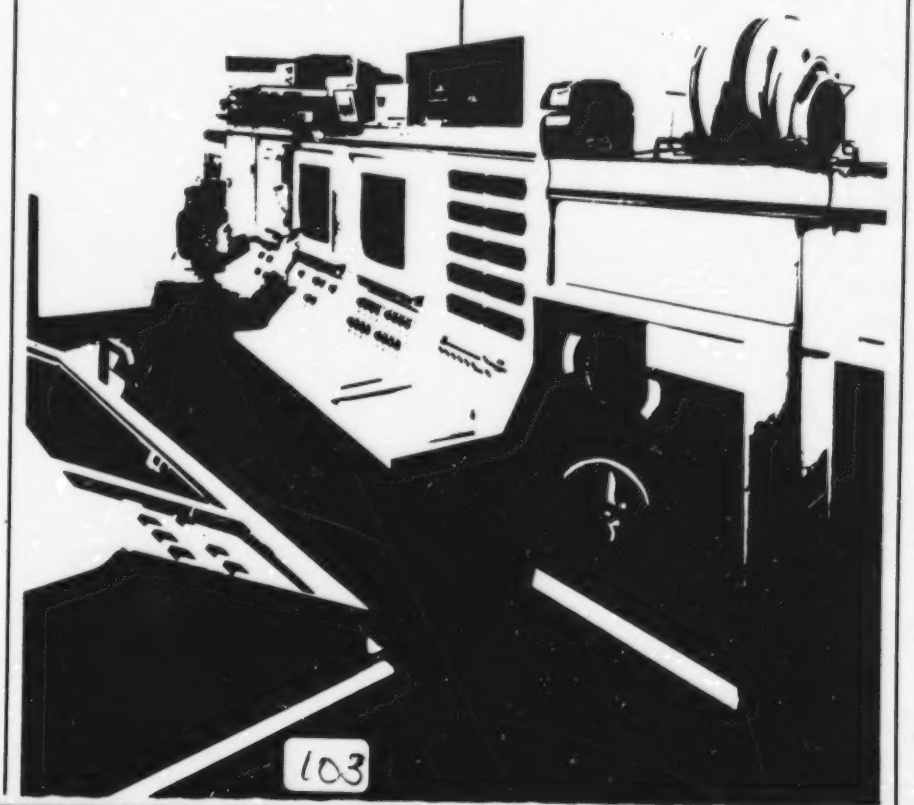
Appendix A

Summary of Data Collection Operations and Report Methodology



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Appendix A

Summary of Data Collection Operations and Report Methodology

Data for the Gas Supplies of Interstate Natural Gas Pipeline Companies, 1984, are based on the FERC Form 15 "Interstate Pipelines' Annual Report of Gas Supply." This form is filed annually on April 1 of the year following the report year.

Survey Design

The survey was implemented in 1963 by the FPC. The FERC assumed jurisdictional authority for the survey on October 1, 1977, as a result of the Department of Energy Organization Act; and simultaneously the EIA was given the responsibility for the collection, processing, and publication of the data gathered by the survey.

The FPC Form 15 was superseded by the FERC Form 15 (Figure A1) in 1981. The FERC Form 15 has been approved by the Office of Management and Budget for use until August 31, 1987.

The survey universe varies slightly from year to year. The FERC required 89 interstate pipeline companies to file Form 15 in 1985 for report year 1984. On November 21, 1984, the Reserves and Natural Gas Division of the Office of Oil and Gas, EIA, mailed report year 1984 forms to all respondents identified by the FERC. Completed forms were returned to the Reserves and Natural Gas Division where they were reviewed for errors, corrected as necessary, and processed into machine-readable format.

Response Statistics

Data for the report year 1984 were due April 1, 1985. The response rate as of April 13, 1985, was approximately 86 percent. Extensions of up to 30 days are generally granted upon receipt of a formal written request provided the respondent is not currently involved in FERC hearings.

Approximately 2 percent of the respondents submitted an amended Form 15 to correct major reporting errors. An additional 2 percent resubmitted partial data to replace erroneous data submitted initially. The final response rate was 100 percent.

Respondents may file on magnetic tape provided that a printout reasonably conforming in format to the Form 15 is also filed. Fifteen major companies elected to submit their 1984 data on magnetic tape.

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Summary of Data Reporting Requirements

The FERC Form 15 (see Figure A1) is a multipage form consisting of seven major parts. Additionally, as part of the filing requirement, each company is required to submit a general map covering the producing areas traversed by the pipeline system and a map for each field unless previously submitted. The major parts of the form include an Identification Schedule, Synopsis of Gas Supply, Disclosure of Other Gas Supply Filings with Federal Agencies, Gas Procurement Activity Statement, Schedule I, Schedule II, and Footnote Data. Companies which have year-end remaining recoverable reserves of more than 50 billion cubic feet of company-owned and independent producer contract reserves are required to complete the entire form and provide the specified maps. The remaining respondents are required to file only the Identification Schedule, the Synopsis of Gas Supply, and Schedule II. Companies which act as transporters only are required to file a statement providing the names and addresses of the company or companies for which gas is transported.

The data provided in this report are derived from the Synopsis of Gas Supply, Schedule I, and Schedule II. The Synopsis of Gas Supply and Schedule I contain summary level reserves and production data reflective of the detail information contained in Schedule II. The Synopsis of Gas Supply and Schedule I consist of a single page each. All volumes reported on these two forms are on a dry basis at 14.73 psia and 60 degrees Fahrenheit.

Each source of supply is reported in Schedule II. The Schedule II format allows a maximum of five sources to be reported on each page, therefore Schedule II submissions may vary from one page to many.

Data Quality Assurance Procedures

Individual company reports were initially reviewed by analysts prior to key entry. During this prescan, analysts checked for correct reporting procedures, proper format, correct company identification, and data consistency between the Synopsis of Gas Supply, Schedule I, and, for small companies, Schedule II. Data completeness and intraschedule consistency checking were also performed. Errors were detected in 44 percent of the submissions during this review phase. Each respondent whose submission contained an error was contacted by telephone and informed of the error and instructed on the correct filing procedure. If corrections were determined to be extensive, the respondent was asked to prepare and submit an amended Form 15 or the portions thereof which were in error.

Following conclusion of the manual review phase, the data were keyed for automated processing. Edits were then performed to insure that gas supply sources were properly identified and that mathematical calculations were correct and consistent within and between schedules. Errors were detected in 74 percent of the submissions during the automated editing phase of form review. Respondents whose filings were found to contain errors were telephoned as before for problem resolution.

Comparison of the Form 15 with Other Data Sources

The Form 15 data on imports from Canada and Mexico (Table 18) were compared with data collected on the FPC Form 14 and published in the *Natural Gas Monthly*.[5]). Significant differences were resolved through phone calls to the Form 15 and Form 14 respondents.

[5]Energy Information Administration, "U.S. Imports and Exports of Natural Gas, 1984," *Natural Gas Monthly*, DOE/EIA-0130(84/07), (Washington, D.C. July 1984

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FERC FORM NO. 15: INTERSTATE PIPELINE'S ANNUAL REPORT OF GAS SUPPLY

Identification Schedule

IDENTIFICATION

1. Exact Legal Name of Respondent (Company)	2. Company Code	3. Report Year 19[ ][ ]
4. Address of Principal Business Office at End of Report Year (Street, City, State, Zip Code)		
5. Name of Contact Person	6. Title of Contact Person	
7. Address of Contact Person (Street, City, State, Zip Code)		
8 Telephone of Contact Person (Including Area Code)	9. Date of Submission (Mo, Da, Yr) Mo [ ][ ] Da [ ][ ] Yr [ ][ ]	

10. What is the total number of pages submitted for each schedule?

Schedule (01)	Page Number (02)	Total Number of Pages (03)
(1) Synopsis of Gas Supply	0002	
(2) Disclosure of Other Gas Supply Filings with Federal Agencies	0003	
(3) Gas Procurement Activity Statement	0004	
(4) Schedule I: System Deliverability Summary		
(5) Schedule II: Committed Reserves and Deliverability Estimates for All Supply Sources		
(6) Footnote Data		
(7) Pipeline System Maps *(See instructions)*		

CERTIFICATION

The undersigned certifies that he/she has examined the Synopsis of Gas Supply and the accompanying report; that to the best of his/her knowledge, information, and belief; all statement of fact contained in said report are true and the said report is a correct statement of the gas supply of the above-named respondent in respect to each and every matter set forth therein during the period from and including January 1 to and including December 31 of the report year.

11. Name	12. Title	13. Signature	14. Date Signed (Mo, Da, Yr)

Title 18, U.S.C. 1001, makes it a crime for any person knowingly and willingly to make to any Agency or Department of the United States any false, fictitious, or fradulent statements as to any matter within its jurisdiction.

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FERC FORM NO. 15: INTERSTATE PIPELINE'S ANNUAL REPORT OF GAS SUPPLY

Synopsis of Gas Supply

000

Company Code	Company Name (35)	Report Year 19	Date of Submission (Mo, Da, Yr)	Footnote Made For This Page ☐ Yes

01	Enter the class of Natural Gas Company, as defined in the "Uniform System of Accounts for Natural Gas Companies." *(See Sources for Codes Used in the instructions)*	
02	Enter the estimated total volume of remaining salable gas supply at the end of the current report year. *(See definition of Gas Supply)*	*(Enter volume)*
03	Enter the total new reserve additions that are reported for the first time in the current report year. *(See definition of Reserve Additions)*	
04	Enter the total new reserve additions acquired through new gas purchase contracts with independent producers during the current report year. *(See definition of Producer Contracted Reserves)*	
05	Enter the total revisions (increases or decreases) to the previous reserve estimates made during the current report year. *(See definition of Revisions)*	+ / -
06	Enter the total volume of company owned recoverable gas in underground storage facilities at the end of the current report year. *(See definitions of Owned Reserves and Underground Storage)*	
07	Enter the gas balance due from exchange agreements (positive or negative) at the end of the current report year. *(See definition of Exchange Agreements)*	+ /-

108

FERC FORM NO. 15: INTERSTATE PIPELINE'S ANNUAL REPORT OF GAS SUPPLY
Disclosure of Other Gas Supply Filings with Federal Agencies

Company Code	Company Name (35)	Report Year 19	Date of Submission (Mo, Da, Yr)	Footnote Made For This Page ☐ Yes

Identify below any public filings concerning the pipeline respondent's total system gas supplies made with other Federal Governmental Agencies by the respondent, its parent or affiliate, after the April 1 filing of the respondent's FERC Form No. 15 for the preceding year of report. (Affiliates are companies or persons that directly or indirectly, through one or more intermediaries, control or are controlled by, or are under control with the respondent company.) Reconciliation is required for that portion of the gas supply data included in the other filing(s) representing the gas supply belonging to the respondent which is different from that reported in the current FERC Form No. 15 filing. If more space is needed, use copies of this schedule.

Line No.	Name of Filing Party *(Enter full name)* (01)	Name and/or Date of Report (02)	Formal Name of Recipient Government Agency (03)	Reconciliation of Any Gas Reserve Differences *(Explain)* (04)
01				
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FERC FORM NO. 15 (REVISED 6-81) Page 0003 Supplemental Sheet No ☐

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FERC FORM NO. 15: INTERSTATE PIPELINE'S ANNUAL REPORT OF GAS SUPPLY

Gas Procurement Activity Statement

Company Code	Company Name (35)	Report Year 19	Date of Submission (Mo, Da, Yr)	Footnote Made For This Page ☐ Yes

Line No.	*Provide a general statement of the company's gas procurement activity. Identify and include a description of any anticipated future supply additions from pending certificates. Include a general statement concerning current contract negotiations; producer option agreements; advance payment agreements; negotiations with foreign suppliers; construction of facilities to produce, or contracts for, supplies of LNG, SNG, or coal gas; or any other activities to add gas supplies. Also include a statement of the status of exploration and development activity in, or near, the general producing areas traversed by or available to the pipeline system to provide information to be relied upon by respondent with respect to applications for certificates under Section 7(c) of the Natural Gas Act.*
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FERC FORM NO. 15: INTERSTATE PIPELINE'S ANNUAL REPORT OF GAS SUPPLY

Schedule I

System Deliverability Summary

(See the Instructions for the filing requirements of this Schedule.)

100

Company Code	Company Name (35)	Report Year 19	Date of Submission (Mo, Da, Yr)	Footnote Made For This Page ☐ Yes

CURRENT GAS SUPPLY

Line No.	Item (00)	Owned (10) (01)	Producer Contracted (10) (02)	Other Supply Contracts (10) (03)	Interstate Pipeline Purchases (10) (04)	Total (10) *(Enter total of 01, 02, 03 and 04)* (05)
101	Reserves & Other Supply					
102	Volume Purchased and/or Produced					

DELIVERABILITY FORECAST

Line No.	Projected Year (00)	Annual Volume Scheduled: Owned and Producer Contracted (10) (01)	Annual Volume Scheduled: Other Supply Contracts (10) (02)	Annual Volume Scheduled: Interstate Pipeline Purchases (10) (03)	Total (10) *(Enter total of 01, 02, and 03)* (04)	Annual Requirement (10) (05)	Total Certificate Requirement (10) (06)
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
121							
122							
123	TOTAL						

TOTAL REMAINING RESERVES

124	125	126	127
Enter the result of the total of line 101, columns 01, 02 minus line 123, column 01. [(01 + 02) -01]	Enter the result of line 101, column 03 minus line 123, column 02.	Enter the result of line 101, column 04 minus line 123, column 03.	Enter the result of line 101, column 05 minus line 123, column 04.

FERC FORM NO. 15 (REVISED 6-81) Page ☐ Supplemental Sheet No ☐

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FERC FORM NO. 15: INTERSTATE PIPELINE'S ANNUAL REPORT OF GAS SUPPLY

Schedule II

Committed Reserves and Deliverability Estimates For All Supply Sources

(See the Instructions for filing requirements of this schedule. If more space is needed, use copies of this schedule.
Note how Columns A through E of lines 206 to 226 correspond to lines 201 to 205.)

200

Company Code	Company Name (35)	Report Year	Date of Submission (Mo, Da, Yr)	Footnote Made For This Page
		19		☐ Yes

Line No. (00)	Column Alpha (00)	Group (or Field) Code (01)	Group (or Field) Name (26) (02)	Supply Code Type (03)	Supply Code Class (04)	Supply Code Term (05)	State Abb. (06)	County/Parish Code (07)	County/Parish Name (16) (08)	Pipeline (or Seller) Name (26) (09)
201	A									
202	B									
203	C									
204	D									
205	E									

Line No. (00)	Reserves *(Enter in MMCF)* (01)	Column A (for line 201) (02)	Column B (for line 202) (03)	Column C (for line 203) (04)	Column D (for line 204) (05)	Column E (for line 205) (06)
206	Are lines 207 to 209 on a dedicated basis only? *(Enter yes or no)*					
207	Initial Recoverable Wet Gas					
208	Cumulative Wet Gas Production					
209	Remaining Recoverable Wet Gas					
210	Fuel and Shrinkage Factor					
211	Owned and Contracted Remaining Dry Gas					
212	Owned and Contracted Report Year Dry Gas Production/Purchases					
213	Approximate Heating Value (In Btu)					
214	Company Owned Remaining Dry Gas					
215	Company Owned Report Year Dry Gas Production					
216	Additions During Report Year					
217	Net Revisions During Report Year					
218	Owned and Contracted Remaining Nonassociated Dry Gas					
219	Total Number of Reservoirs					
220	Number of Nonproducing Reservoirs					
221	Remaining Total Dry Gas In Nonproducing Reservoirs					
222	Estimated Annual Scheduled Volume – First Year					
223	Estimated Annual Scheduled Volume – Second Year					
224	Estimated Annual Scheduled Volume – Third Year					
225	Estimated Annual Scheduled Volume – Fourth Year					
226	Estimated Annual Scheduled Volume – Fifth Year					

FERC FORM NO. 15: INTERSTATE PIPELINE'S ANNUAL REPORT OF GAS SUPPLY

Footnote Data

(Refer to Specific Instructions before completing this schedule. If more space is needed, use copies of this schedule.)

Company Code	Company Name (35)	Report Year	Date of Submission (Mo, Da, Yr)
		19	

Line No.	Page Number (01)	Supplemental Sheet Number (02)	Data Reference No.		Classification (05)	Footnote Id. (06)	Footnote Sequence Number (07)	Footnote Code (08)	Footnote Message (09)
			Line No. (03)	Column or Item No. (04)					
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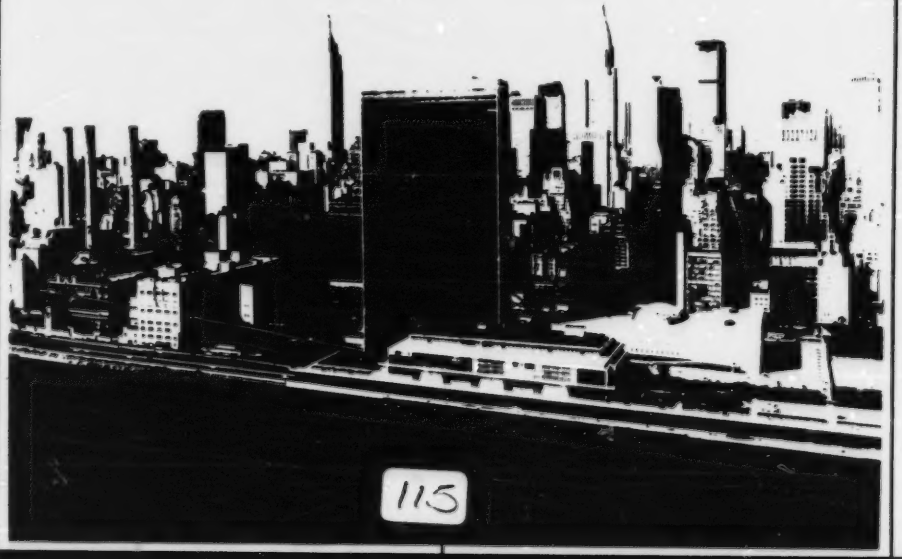
Appendix B

Index of Jurisdictional Companies



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Appendix B

Index of Jurisdictional Companies

Appendix B is an index of interstate pipeline companies subject to the jurisdiction of the FERC under the Natural Gas Act who were required to file the 1984 annual report of gas supply in accordance with the requirements of Section 260.7 of the regulations of the FERC (18 CFR 260.7).

Natural gas pipeline companies which have year-end remaining recoverable reserves of more than 50 billion cubic feet of company-owned and independent producer contract reserves, at 14.73 psia and 60 degrees Fahrenheit, are required to complete the entire Form 15 in accordance with Part IV of "General Information" of the "General Instructions." The 38 companies meeting this criterion are as follows:

ANR Pipeline Company[6]
Arkla Incorporated
Bayou Interstate Pipeline System[7]
Carnegie Natural Gas Company
Colorado Interstate Gas Company
Columbia Gas Transmission Corporation[8]
Consolidated Gas Transmission Corporation
El Paso Natural Gas Company
Equitable Gas Company
Florida Gas Transmission Company[8]
Kentucky West Virginia Gas Company
K N Energy Incorporated[8]
Lone Star Gas Company Division Enserch Corporation
Louisiana-Nevada Transit Company
Mid Louisiana Gas Company
MIGC Incorporated
Mississippi River Transmission Corporation
Montana-Dakota Utilities Company
Mountain Fuel Resources Incorporated
National Fuel Gas Supply Corporation
Natural Gas Pipeline Company of America[8]
Northern Natural Division InterNorth Incorporated[8]
Northwest Central Pipeline Company
Northwest Pipeline Corporation

[6]Formerly Michigan Wisconsin Pipe Line Company
[7]Formerly West Lake Arthur Corporation

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Panhandle Eastern Pipe Line Company[8]

Ringwood Gathering Company

Sea Robin Pipeline Company[8]

Southern Natural Gas Company[8]

Tennessee Gas Pipeline Division Tenneco[8]

Texas Eastern Transmission Corporation[8]

Texas Gas Transmission Corporation[8]

Transcontinental Gas Pipe Line Corporation[8]

Transwestern Pipeline Company[8]

Trunkline Gas Company[8]

United Gas Pipe Line Company[8]

Valero Interstate Transmission Company

West Texas Gathering Company

[8]Submits Form 15 data on magnetic tape, as well as hard copy

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Natural gas pipeline companies subject to the provisions noted at the beginning of this appendix having year-end remaining, recoverable, salable reserves consisting of 50 billion cubic feet or less of company-owned and independent producer contract reserves at 14.73 psia and 60 degrees Fahrenheit or which purchase their entire supply of gas from another interstate pipeline company, foreign supplier, or supplemental gas source, complete only the Identification Schedule (page 0001), the Synopsis of Gas Supply (page 0002), and Schedule II of Form 15 in accordance with Part IV of "General Information" of the "General Instructions." The companies meeting these criteria are:

Alabama-Tennessee Natural Gas Company

Algonquin Gas Transmission Company[9]

Arkansas Oklahoma Gas Corporation

Associated Natural Gas Company[9]

Blacksville Oil and Gas Company

Bluefield Gas Company[9]

Border Gas Incorporated[9]

Caprock Pipeline Company

Cimarron Transmission Company

Commercial Pipeline Company Incorporated[9]

Crown Zellerbach Corporation

East Tennessee Natural Gas Company[9]

Eastern Shore Natural Gas Company

Gas Transport Incorporated

Georgia-Pacific Corporation

Granite State Gas Transmission Incorporated[9]

Great Lakes Gas Transmission Company[9]

Great Plains Natural Gas Company[9]

Indiana Utilities Corporation[9]

Inland Gas Company Incorporated

Inter-City Minnesota Pipelines Limited[9]

International Paper Company

Interstate Power Company[9]

Iowa Public Service Company[9]

Iowa-Illinois Gas & Electric Company[9]

Lawrenceburg Gas Transmission Corporation[9]

Locust Ridge Gas Company

Michigan Gas Storage Company

Midwestern Gas Transmission Company

North Penn Gas Company

Northwest Alaskan Pipeline Company[9]

Ohio River Pipeline Corporation[9]

Orange and Rockland Utilities Incorporated

Pacific Gas Transmission Company[9]

Pacific Interstate Offshore Company

Pacific Interstate Transmission Company

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Pacific Offshore Pipeline Company
Pennsylvania & Southern Gas Company
Raton Natural Gas Company[9]
South Georgia Natural Gas Company[9]
South Penn Gas Company[9]
Texas Gas Pipeline Corporation
Union Gas System Incorporated
Valley Gas Transmission Incorporated
Washington Gas Light Company
West Texas Gas Inc
Western Gas Interstate Company
Western Transmission Corporation
Wheeler Gas Incorporated
Zenith Natural Gas Company

[9]Purchased their entire 1984 gas supply from other interstate pipeline companies or foreign suppliers.

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Transporters of natural gas are exempt from filing Form 15; however, they are required by the FERC to file a letter, in lieu of the form, listing the name and address of each company for which they transported gas during the report year. Letters were received from the following companies:

Black Marlin Pipeline Company
Blue Dolphin Pipe Line Company
Canyon Creek Compression Company
Chandeleur Pipe Line Company
Columbia Gulf Transmission Company
Jupiter Energy Corporation
Marengo Corporation
Mitco Pipeline
Northern Border Pipeline Company
Overthrust Pipeline Company
Pelican Interstate Pipeline Corporation[10]
Penn Jersey Pipeline Company
Sabine Pipe Line Company
Standard Pacific Gas Line Incorporated
Stingray Pipeline Company
Tarpon Transmission Company
Trailblazer Pipeline Company
Union Light, Heat & Power Company
Wyoming Interstate Company

[10]Formerly Tidal Transmission Company

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Appendix C

State Subdivisions

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Appendix C

State Subdivisions

Louisiana

Northern Louisiana

All of Louisiana north of the 31st parallel including these counties:

Bienville	Grant	Red River
Bossier	Jackson	Richland
Caddo	La Salle	Sabine
Caldwell	Lincoln	Tensas
Catahoula	Madison	Union
Claiborne	Morehouse	Webster
De Soto	Natchitoches	West Carroll
East Carroll	Quachita	West Feliciana
Franklin	Pointe Coupee	Winn

Southern Louisiana

Southern Louisiana - Onshore

Includes all of Louisiana south of the 31st parallel including all or part of the following counties:

Acadia	Iberville	St. James
Allen	Jefferson	St. John the Baptist
Ascension	Jefferson Davis	St. Landry
Assumption	Lafayette	St. Martin
Avoyelles	La Fourche	St. Mary
Calcasieu	Livingston	St. Tammany
Cameron	Orleans	Tangipahoa
Concordia	Plaquemines	Terrebonne
East Baton Rouge	Rapides	Vermilion
East Feliciana	St. Bernard	Vernon
Evangeline	St. Charles	Washington
Iberia	St. Helena	West Baton Rouge

Southern Louisiana - Offshore

Federal - Offshore

State - Offshore

General - Offshore

New Mexico

New Mexico - Permian Basin Area

Chaves	Eddy	Lea

New Mexico - San Juan Basin Area

McKinley	Rio Arriba	Sandoval
		San Juan

Texas

Texas Railroad Commission District No. 1 (South)

Atascosa	Frio	McMullen
Bastrop	Gonzales	Maverick
Bexar	Guadalupe	Medina
Caldwell	Kinney	Uvalde
Dimmit	Lasalle	Wilson
		Zavala

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Texas Railroad Commission District No. 1 (North)

Bandera	Gillespie	Milam
Bell	Hays	Real
Blanco	Kendall	Travis
Burnet	Kerr	Val Verde
Comal	Llano	Williamson
Edwards	Mason	

Texas Railroad Commission District No. 2

Bee	Jackson	Live Oak
Calhoun	Karnes	Refugio
De Witt	Lavaca	Victoria
Goliad		

Texas Railroad Commission District No. 3

Austin	Hardin	Orange
Brazoria	Harris	Polk
Brazos	Jasper	San Jacinto
Burleson	Jefferson	Trinity
Chambers	Lee	Tyler
Colorado	Liberty	Walker
Fayette	Madison	Waller
Ft. Bend	Matagorda	Washington
Galveston	Montgomery	Wharton
Grimes	Newton	

Texas Railroad Commission District No. 4

Arkansas	Jim Hogg	San Patricio
Brooks	Jim Wells	Starr
Cameron	Kenedy	Webb
Duval	Kleberg	Willacy
Hidalgo	Nueces	Zapata

Texas Railroad Commission District No. 5

Bosque	Henderson	Limestone
Collin	Hill	McLennan
Dallas	Hopkins	Nararro
Delta	Hunt	Rains
Ellis	Johnson	Robertson
Falls	Kaufman	Rockwell
Fannin	Lamar	Tarrant
Freestone	Leon	Van Zandt

Texas Railroad Commission District No. 6

Anderson	Harrison	Rusk
Angelina	Houston	Sabine
Bowie	Marion	San Augustine
Camp	Morris	Shelby
Cass	Nacogdoches	Smith
Cherokee	Panola	Titus
Franklin	Red River	Upshur
Gregg		Wood

Texas Railroad Commission District No. 7-B

Brown	Hamilton	Parker
Callahan	Haskell	San Saba
Coleman	Hood	Shackelford
Comanche	Jones	Somervell
Coryell	Lampasas	Stephens
Eastland	Mills	Stonewall
Erath	Nolan	Taylor
Fisher	Palo Pinto	Throckmorton

Texas Railroad Commission District No. 7-C

Coke	McCulloch	Sutton

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Concho	Menard	Terrell
Crockett	Reagan	Tom Green
Irion	Runnels	Upton
Kimble	Schleicher	

Texas Railroad Commission District No. 8

Andrews	Howard	Pecos
Brewster	Hudspeth	Presidio
Crane	Jeff Davis	Reeves
Culberson	Loving	Sterline
Ector	Martin	Ward
El Paso	Midland	Winkler
Glasscock	Mitchell	

Texas Railroad Commission District No. 8-A

Bailey	Floyd	Lamb
Borden	Gaines	Lubbock
Cochran	Garza	Lynn
Cottle	Hale	Motley
Crosby	Hockley	Scurry
Dawson	Kent	Terry
Dickens	King	Yoakum

Texas Railroad Commission District No. 9

Archer	Foard	Montague
Baylor	Grayson	Wilbarger
Clay	Hardeman	Wichita
Cooke	Jack	Wise
Denton	Knox	Young

Texas Railroad Commission District No. 10

Armstrong	Gray	Oldham
Briscoe	Hall	Parmer
Carson	Hansford	Potter
Castro	Hartley	Randall
Childress	Hemphill	Roberts
Collingsworth	Hutchinson	Sherman
Dallam	Lipscomb	Swisher
Deaf Smith	Moore	Wheeler
Donley	Ochiltree	

Texas - Offshore

- Federal - Offshore
- State - Offshore
- General - Offshore

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Appendix D

References

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Appendix D

References

Canada's Minister of Energy, Mines and Resources. July 13, 1984, *Communique* 84/81 issued by the Minister of Energy, Mines and Resources.

United States Department of Energy. February 17, 1984, *New Policy Guidelines and Delegation Orders on the Regulation of Imported Natural Gas*, DOE, Washington, D.C.

Energy Information Administration. July 1985, "U.S. Imports and Exports of Natural Gas, 1984," *Natural Gas Monthly*, DOE/EIA-0130(85/05), Washington, D.C.

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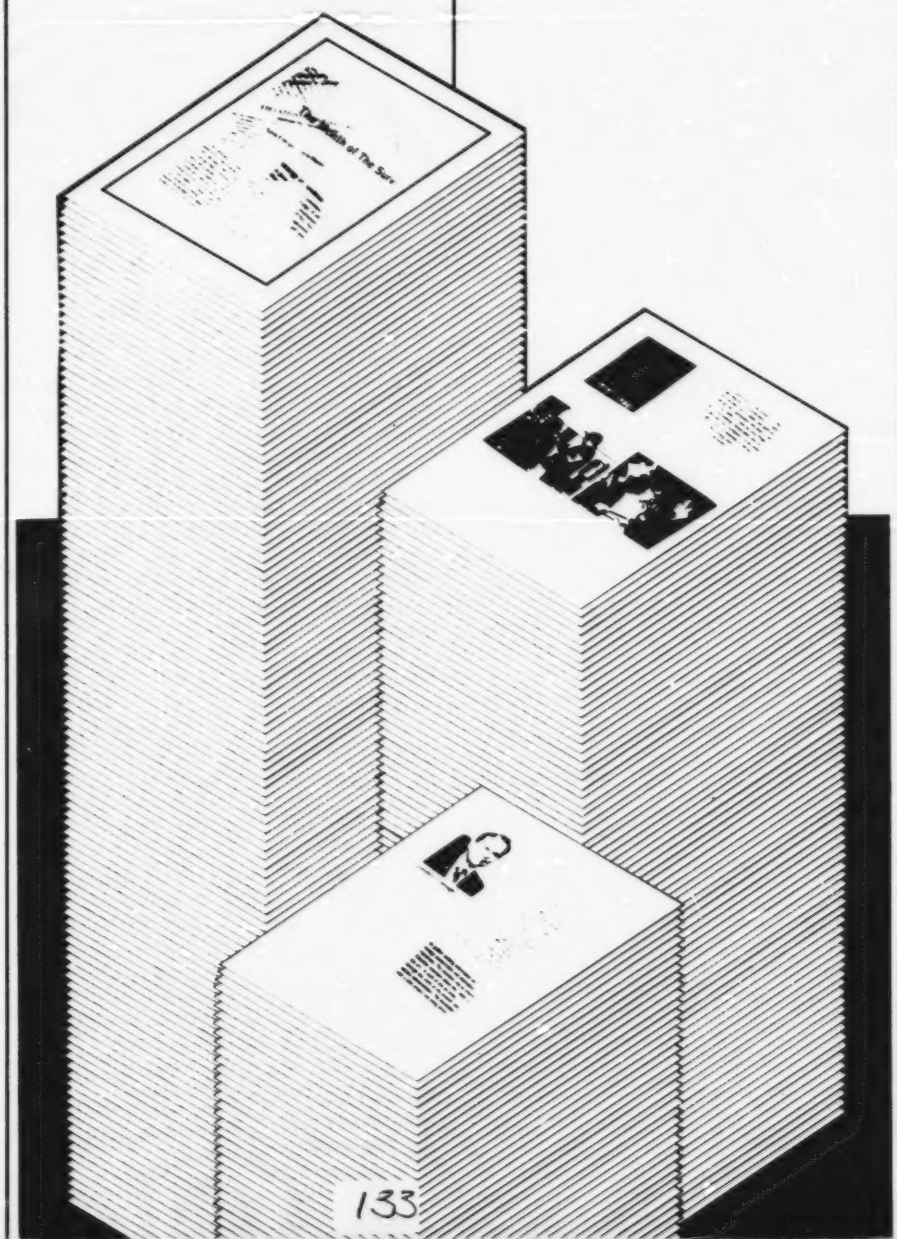
Appendix E

Selected Recurring Natural Gas and Other Related Reports



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Appendix E

Selected Natural Gas and Related Reports

Recurring Reports

Reports Dealing Principally with Natural Gas and/or Natural Gas Liquids

Natural Gas Monthly, DOE/EIA-0130.

Natural Gas Annual 1983, DOE/EIA-0131(83), March 1985.

Statistics of Interstate Natural Gas Pipeline Companies, 1984, DOE/EIA-0145(84), October 1985. Published annually.

Reports Covering Natural Gas, Natural Gas Liquids, and Other Energy Sources

U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves 1984 AnnualReport, DOE/EIA-0216(84), Oct 1984.

Domestic Natural Gas Reserves and Production Dedicated to Interstate Pipeline Companies 1984, DOE/EIA-0167(84)P, Aug 1984.

State Energy Overview 1983 DOE/EIA-0354(83), Aug 1985.

Monthly Energy Review DOE/EIA-0035. Published monthly. Provides national aggregate data for natural gas, natural gas liquids, and other energy sources.

Annual Report to Congress 1984, DOE/EIA-0173(84), March 1985.

Annual Energy Review 1984, DOE/EIA-0384(84), April 1985.

Short-Term Energy Outlook, DOE/EIA-0202. Published quarterly. Provides forecasts for next six quarters for natural gas and other energy sources.

State Energy Price and Expenditure Report 1970-1982, DOE/EIA-0376(82), April 1985.

State Energy Data Report/Consumption Estimates, (1960-1983), DOE/EIA-0214(83), May 1985.

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One-Time Reports

Selected Natural Gas and Related Reports

Drilling and Production Under Title I of the NGPA, DOE/EIA-0448, June 1984.

Competition and Other Current Issues in Natural Gas Market , DOE/EIA-0489, June 1984.

Recent Market Activities of Major Interstate Pipeline Companies,DOE/EIA-0440, January 1984.

Two Approaches to the Linkage of U.S. Oil and Gas Reserves Estimates, DOE/EIA-0452, July 1984.

Natural Gas and Related Data Reference Reports

Directory of Energy Data Collection Forms, DOE/EIA-0249(85/1), July 1985.

EIA Publications Directory, A User's Guide 1984, DOE/EIA-0149(84), March 1985.

Oil and Gas Field Code Master List 1984, DOE/EIA-0370(84), January 1985.

Energy Information Directory, DOE/EIA-0205(85/1), Aug 1985.

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Glossary

Annual Requirement: a reporting company's best estimate of its annual requirement for natural gas needed to make direct sales or sales for resale under certificate authorizations and for company use and unaccounted-for gas during the year following the current report year.

Certificate Requirement: the maximum annual volume allowed for sales of natural gas to resale or direct-sale customers under certificate authorization by the FERC. The volume reported should be without regard to FERC-approved curtailment plans.

Coal Gas: substitute natural gas produced synthetically by the chemical reduction of coal at a coal gasification facility.

Dedicated Reserves: as used in this report and defined in Form 15, dedicated reserves are the volume of recoverable, salable gas reserves committed to, controlled by, or possessed by the reporting pipeline company and used for acts and services for which both the seller and the company have received certificate authorization from the FERC. Reserves include both company-owned reserves (including owned gas in underground storage), reserves under contract from independent producers, and short-term and emergency supplies from the intrastate market. Gas volumes under contract from other interstate pipelines are not included as reserves, but may constitute part or all of a company's gas supply.

Deliverability: as used in this report and defined by the FERC in its Order No. 279 (CFR 2.61, 260.7), deliverability "...represents the number of future years during which a pipeline company can meet its annual requirements for its presently certificated delivery capacity from presently committed sources of supply. The availability of gas from these sources of supply shall be governed by the physical capabilities of these sources to deliver gas, by the terms of existing gas-purchase contracts, and by limitations imposed by State or Federal regulatory agencies."

Dry Gas: Natural gas from which the entrained liquids and nonhydrocarbon gases have been removed by lease facilities and/or plant processing. This is the gas that the interstate pipeline purchased, or expects to purchase, to serve its annual requirements.

Gas Supply: For the purpose of this report, the dedicated, recoverable, salable natural gas, including liquefied natural gas (LNG), synthetic natural gas (SNG), and coal gas available to a reporting company from the following:

- company owned reserves
- independent producer contracts
- LNG contracts
- SNG contracts
- gas purchase contracts with other pipeline companies
- commitments with foreign suppliers
- coal gasification contracts
- recoverable gas in underground storage.

Independent Producer: For the purposes of this report, any person who is engaged in the production or gathering

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of natural gas and who sells natural gas in interstate commerce for resale, but who is not engaged in the transportation of natural gas (other than gathering) by pipeline in interstate commerce.

Interstate Pipeline: Any person engaged in natural gas transportation subject to the jurisdiction of the FERC under the Natural Gas Act.

Interstate Pipeline Purchase: Any gas supply contracted from and volumes purchased from other interstate pipelines, overland natural gas import purchases, and LNG, SNG, or coal gas purchases from domestic or foreign sources. Purchases from intrastate pipelines, pursuant to Section 311(b) of the NGPA of 1978, and from independent producers are not included with interstate pipeline purchases.

Intrastate Pipeline: Any person engaged in natural gas transportation (not including gathering) which is not subject to the jurisdiction of the FERC under the Natural Gas Act (other than any such pipeline which is not subject to the jurisdiction of the FERC solely by reason of Section 1(c) of the Natural Gas Act).

Liquefied Natural Gas (LNG): For this report, natural gas which has undergone a phase change to a liquid state and which, before entry into the pipeline stream, must undergo a phase change reversal to the gaseous state.

Natural Gas: A mixture of hydrocarbon compounds and small quantities of various nonhydrocarbons existing in the gaseous phase or in solution with crude oil in natural underground reservoirs at reservoir conditions.

Nonassociated Gas: Natural gas in reservoirs that do not contain significant quantities of crude oil.

Offshore Reserves and Production: Unless otherwise dedicated, reserves and production which are in either State or Federal domains, located seaward of the coastline.

Other Supply Contracts: Any contracted gas supply other than owned reserves, producer contracted reserves, and interstate pipeline purchases which are used for acts and services for which the company has received certificate authorization from the FERC. Purchases from intrastate pipelines pursuant to Section 311(b) of the NGPA of 1978 are included with other supply contracts.

Owned Reserves: Any reserve of natural gas which the reporting company owns as a result of oil and gas leases, fee mineral ownership, royalty reservations, or lease or royalty reservations and assignments committed to services under certificate authorizations by the FERC. Company-owned recoverable natural gas in underground storage is classified as owned reserves.

Pipeline Purchases: Gas supply contracted from and volumes purchased from other natural gas companies as defined by the Natural Gas Act, as amended (52 Stat 821), excluding independent producers, as defined in Paragraph 154.91(a), Chapter I, Title 18 of the Code of Federal Regulations.

Plant or Gas Processing Plant: A facility designed to achieve the recovery of natural gas liquids from the stream of natural gas, which may or may not have been processed through lease separators and field facilities, and to control the quality of the natural gas to be marketed.

Production: Includes gas produced from pipeline company-owned reserves and gas purchased from independent producers.

Report Year: The calendar year, beginning January 1 and ending December 31.

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Reserve Additions: The estimated original, recoverable, salable, and new proved reserves credited to new fields, new reservoirs, new gas purchase contracts, amendments to old gas purchase contracts or purchase of gas reserves in-place that occurred during the report year and had not been previously reported. Reserve additions refer to domestic in-the-ground natural gas reserve additions and do not refer to interstate pipeline purchase agreements, contracts with foreign suppliers, coal gas, SNG, or LNG purchase arrangements.

Reservoir: A porous and permeable underground formation containing an individual and separate accumulation of producible hydrocarbons (oil and/or gas) which is confined by impermeable rock or water barriers and characterized by a single natural pressure system. In most situations, reservoirs are classified as oil reservoirs or gas reservoirs by a regulatory agency. In the absence of regulatory authority classification, the classification is based on the natural occurrence of the hydrocarbons in the reservoir, and classification and names may be determined by the respondent.

Revisions: Any change in earlier reserve estimates, positive or negative, made during the report year as a result of new information, including the enlargement of the proved area (extensions). Revisions for a given report year also include increases associated with improved recovery techniques or equipment, adjustments made for previous errors in production estimates, or changes in one or more facts in volumetric or performance reserve estimates.

Revisions and Additions (Gross Change in Reserves): The difference (plus or minus) between the year-end reserves plus production for a given year and the year-end reserves for the previous year.

Salable-Natural Gas: Natural gas marketed under controlled quality conditions.

Short-Term Sales: Any short-term purchase covering a time period of 2 years or less. Purchases from intrastate pipelines pursuant to Section 311(b) of the NGPA of 1978 are classified as short-term sales, regardless of the stated contract term.

Supplemental Gaseous Fuel Supplies: As used in this report supplemental supplies include coal gas, LNG, SNG, and any other supply not explicitly type-identified in the Form 15 filings.

Supply Source: May be a single completion, a single well, a single field with one or more reservoirs, several fields under a single gas purchase contract, miscellaneous fields, a processing plant, or a field area, providing, however, that the geographic area encompassed by a single supply source may not be larger than the State in which the reserves are reported.

Synthetic Natural Gas (SNG): A product resulting from the manufacture, conversion, or reformation of petroleum hydrocarbons that may easily be substituted for or interchanged with pipeline-quality natural gas.

Underground Storage: Any underground facility where natural gas is stored within the confines of naturally occurring earth formations and where natural gas is injected with the intent of future withdrawal and use. Abandoned mines or caverns in salt domes in which natural gas is stored underground are considered to be underground storage facilities.

Undifferentiated/Unspecified Reserves and Production: Reserves and production which are not separable by FERC production areas or by States. Undifferentiated and unspecified reserves consist only of company-owned gas in underground storage commencing with report year 1981.

Warranty Contracts: Gas purchase agreements for the sale of natural gas by a producer to a pipeline company wherein the producer warrants it will have available sufficient gas supplies to meet its commitments over the life of the contract. Generally, the producer does not dedicate gas reserves underlying any specific acreage, lease, or fields to the agreement. Substitution of various sources of gas supply may be permitted according to the terms of the contract.

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